

TITLE 18. ENVIRONMENTAL QUALITY

CHAPTER 11. DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY STANDARDS

ARTICLE 1. WATER QUALITY STANDARDS FOR **SURFACE WATERS**

Article 1, consisting of Appendices A through C, repealed April 24, 1996 (Supp. 96-1).

Article 1, consisting of Section R18-11-103, reserved effective April 24, 1996 (Supp. 96-2).

Article 1, consisting of Sections R18-11-105 and R18-11-106. and Appendices A and B. adopted April 24, 1996 (Supp. 96-2).

Article 1, consisting of Sections R18-11-101 and R18-11-102. R18-11-104, R18-11-107 through R18-11-109, R18-11-111 through R18-11-113, R18-11-115, R18-11-117 and R18-11-118, R18-11-120 and R18-11-121, amended effective April 24, 1996 (Supp. 96-2).

Article 1, consisting of Sections R18-11-101 through R18-11-121 and Appendices A through C, adopted effective February 18, 1992 (Supp. 92-1).

Article 1, consisting of Section R18-11-101, repealed effective February 18, 1992 (Supp. 92-1).

Article 1 consisting of Section R9-21-101 renumbered as Article 1, Section R18-11-101 (Supp. 87-3).

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R18-11-101.	Definitions
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Appendi	x A. Numeric Water Ouglity Criteria

Appendix A. Numeric Water Quality Criteria
Appendix B. List of Surface Waters and Designated Uses
Appendix C. Repealed

ARTICLE 2. REPEALED

Article 2, consisting of Sections R18-11-201 through R18-11-205, adopted effective February 18, 1992 (Supp. 92-1).

Article 2, consisting of Sections R18-11-201 through R18-11-214 and Appendices A and B, repealed effective February 18, 1992 (Supp. 92-1).

Article 2 consisting of Sections R9-21-201 through R9-21-214 and Appendices A and B renumbered as Article 2, Sections R18-11. 201 through R18-11-214 and Appendices A and B (Supp. 87-3).

ARTICLE 3. REPEALED

Article 3 heading repealed effective April 24, 1996 (Supp. 96-2).

Article 3, consisting of Sections R18-11-301 through R18-11-304 repealed effective February 18, 1992 (Supp. 92-1).

Article 3 consisting of Sections R9-21-301 through R9-21-304 renumbered as Article 3, Sections R18-11-301 through R18-11-304 (Supp. 87-3).

ARTICLE 4. AQUIFER WATER QUALITY STANDARDS

R18-11-401.	Definitions
R18-11-402.	Repealed
R18-11-403.	Analytical Methods
R18-11-404.	Laboratories
	Narrative Aquifer Water Quality Standards
R18-11-406.	Numeric Aquifer Water Quality Standards: Drinking Water Protected Use
R18-11-407.	Aquifer Water Quality Standards in Reclassified Aquifers
R18-11-408.	Petition for Adoption of a Numeric Aquifer Water Quality Standard

Appendix 1. Repealed Appendix 2. Repealed

Appendix 3. Repealed

Appendix 4. Repealed

Appendix 5. Repealed

Appendix 6. Repealed

Appendix 7. Repealed

ARTICLE 5. AQUIFER BOUNDARY AND PROTECTED **USE CLASSIFICATION**

New Article 5 consisting of Sections R18-11-501 through R18-11-504 and Section R18-11-506 adopted effective October 22. 1987.

R18-11-501. Definitions

R18-11-502. Aquifer boundaries

R18-11-503. Petition for reclassification

R18-11-504. Agency action on petition

R18-11-505. Public participation

R18-11-506. Rescission of reclassification

ARTICLE 1. WATER QUALITY STANDARDS FOR SURFACE WATERS

R18-11-101. Definitions

The terms of this Article shall have the following meanines:

- 1. "Acute toxicity" means toxicity involving a stimulus severe enough to rapidly induce a response. In aquatic toxicity tests, an effect observed in 96 hours or less is considered acute.
- "Agi" means agricultural irrigation.

"AgL" means agricultural livestock watering.

"Agricultural irrigation" means the use of a surface water for the irrigation of crops.

- 5. "Agricultural livestock watering" means the use of a surface water as a supply of water for consumption by livestock.
- 6. "Annual mean" means the arithmetic mean of monthly values determined over a consecutive 12-month period. provided that monthly values are determined for at least 3 months. The monthly value is the arithmetic mean of all values determined in a calendar month.
- 7. "Aquatic and wildlife (cold water fishery)" means the use of a surface water by animals, plants, or other organisms, including salmonids, for habitation, growth, or propagation.
- "Aquatic and wildlife (effluent dependent water)" means the use of an effluent dependent water by animals, plants, or other organisms for habitation, growth, or propagation.
- "Aquatic and wildlife (ephemeral)" means the use of an ephemeral water by animals, plants, or other organisms, excluding fish, for habitation, growth, or propagation.
- 10. "Aquatic and wildlife (warm water fishery)" means the use of a surface water by animals, plants, or other organisms, excluding salmonids, for habitation, growth, or propagation.
- 11. "A&We" means aquatic and wildlife (cold water fishery).
- 12. "A&We" means aquatic and wildlife (ephemeral).
- 13. "A&Wedw" means aquatic and wildlife (effluent dependent water).
- 14. "A&Ww" means aquatic and wildlife (warm water fishery).
- 15. "Clean Water Act" means the Federal Water Poliution Control Act, as amended by the Water Quality Act of
- 16. "Criteria" means elements of water quality standards that are expressed as pollutant concentrations, levels, or narrative statements representing a water quality that supports a designated use.
- 17. "Designated use" means a use specified in Appendix B of this Article for a surface water.
- 18. "Domestic water source" means the use of a surface water as a potable water supply. Coagulation, sedimentation, filtration, disinfection, or other treatments may be necessary to yield a finished water suitable for human consumption.
- 19. "DWS" means domestic water source.
- 20. "EDW" means effluent dependent water.
- 21. "Effluent dependent water" means a surface water that consists primarily of discharges of treated wastewater which has been classified as an effluent dependent water by the Director under R18-11-113.
- 22. "Ephemeral water" means a surface water that has a channel that is at all times above the water table, that flows only in direct response to precipitation, and that does not support a self-sustaining fish population.

- 23. "Existing use" means a use that has actually occurred in a surface water on or after November 28, 1975 or a use that the existing water quality of a surface water will allow.
- "FBC" means full body contact.
- "FC" means fish consumption.
- 26. "Fish consumption" means the use of a surface water by humans for harvesting aquatic organisms for consumption. Harvestable aquatic organisms include, but are not limited to, fish, clams, turtles, crayfish, and frogs.
- 27. "Full body contact" means the use of a surface water which causes the human body to come into direct contact with the water to the point of complete submergence. The use is such that ingestion of the water is likely to occur and certain sensitive body organs, such as the eyes, ears, or nose may be exposed to direct contact with the water.
- 28. "Geometric mean" means the nth root of the product of n items or values. The geometric mean is calculated using the following formula:

$G.M._{\gamma} = R\sqrt{(Y_1)(Y_2)(Y_3)...(Y_n)}$

- 29. "Hardness" means the sum of the calcium and magnesium concentrations, expressed as calcium carbonate (CaCO₃), in milligrams per liter.
- 30. "Mixing zone" means a prescribed area or volume of a surface water that is contiguous to a point source discharge where initial dilution of the discharge takes
- 31. "National Pollutant Discharge Elimination System" means the point source discharge permit program established by §402 of the Clean Water Act.
- 32. "Navigable waters" means the waters of the United States.
- 32. "Ninetieth percentile" means the value which may not be exceeded by more than 10% of the observations in a consecutive 12 month period. A minimum of 10 samples, each taken at least 10 days apart, are required to determine a ninetieth percentile.
- 33. "NNS" means no numeric standard.
- 34. "Oil" means petroleum in any form, including but not limited to crude oil, gasoline, fuel oil, diesel oil, lubricating oil, or sludge.
- 35. "Partial body contact" means the use of a surface water which may cause the human body to come into direct contact with the water, but normally not to the point of complete submergence. The use is such that ingestion of the water is not likely to occur, nor will sensitive body organs such as the eyes, ears, or mose normally be exposed to direct contact with the water.
- 36. "PBC" means partial body contact.
- 37. "Practical quantitation limit" means the lowest level of quantitative measurement that can be reliably achieved during routine laboratory operations.
- 38. "Recreational uses" means the full-body contact and
- partial-body contact designated uses.

 39. "Regional Administrator" means the Regional Administrator of Region 9 of the Environmental Protection Agency.
- 40. "Surface water" means a water of the United States and includes the following:

- a. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce;
- b. All interstate waters, including interstate wetlands:
- c. All other waters such as intrastate lakes, reservoirs, natural ponds, rivers, streams (including intermittent and ephemeral streams), creeks, washes, draws, mudilats, sandilats, wetlands, sloughs, backwaters, prairie potholes, wet meadows, or playa lakes, the use, degradation or destruction of which would affect or could affect interstate or foreign commerce, including any such waters:
 - Which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - iii. Which are used or could be used for industrial purposes by industries in interstate or foreign commerce;
- d. All impoundments of waters otherwise defined as surface waters under this definition;
- Tributaries of surface waters identified in paragraphs (a) through (d) of this definition; and Wetlands adjacent to surface waters identified in
- paragraphs (a) through (e) of this definition.
- 41. "Total nitrogen" means the sum of the concentrations of ammonia (NH₃), ammonium ion (NH₄+), nitrite (NO₂-), nitrate (NO₂-), and dissolved and particulate organic nitrogen expressed as elemental nitrogen.
- 42. "Total phosphorus" means all the phosphorus present in the sample, regardless of form, as measured by a
- persulfate digestion procedure.
 43. "Toxic" means those pollutants, or combination of pollutants, which after discharge and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, may cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunctions in reproduction), or physical deformations in such organisms or their offspring.
- 44. "Unique water" means a surface water which has been classified as an outstanding state resource water by the Director under R18-11-112
- 45. "Use attainability analysis" means a structured scientific assessment of the factors affecting the attainment of a designated use which may include physical, chemical, biological, and economic factors.
- "Wetlands" means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands include swamps, marshes, bogs, cienegas, tinajas, and similar areas.
- 47. "Zone of passage" means a continuous water route of volume, cross-sectional area, and quality necessary to allow passage of free-swimming or drifting organisms with no toxic effect produced on the organisms.

Historical Note

Former Section R9-21-101 repealed, new Section R9-21-101 adopted effective January 29, 1980 (Supp. 80-1). Amended effective April 17, 1984 (Supp. 84-2).

Amended effective January 7, 1985 (Supp. 85-1). Amended by adding Subsection (C) effective August 12 1986 (Supp. 86-4). Former Section R9-21-101 renumbered without change as Section R18-11-101 (Supp. 87-3). Former Section R18-11-101 repealed, new Section R18-11-101 adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-102. Applicability

- The water quality standards prescribed in this Article apply to all surface waters.
- B. The water quality standards prescribed in this Article do not apply to the following:
 - Waste treatment systems, including impoundments. ponds, lagoons, and constructed wetlands that are a part of such waste treatment systems.
 - 2. Man-made surface impoundments and associated ditches and conveyances used in the extraction, beneficiation, and processing of metallic ores, including pits, pregnant leach solution ponds, rattinate ponds, tailing impoundments, decant ponds, concentrate or tailing thickeners, blowdown water ponds, ponds and sumps in mine pits associated with dewatering activity, ponds holding water that has come in contact with process or product and that is being held for recycling, spill or upset catchment ponds, or ponds used for on-site remediation that are not surface waters or are located in areas that once were surface waters but no longer remain surface waters because they have been and remain legally converted.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-103. Repealed

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Repealed effective April 24, 1996 (Supp. 96-2).

R18-11-104. Designated Uses

- A. The Director shall adopt or remove designated uses and subcategories of designated uses by rule.
- Designated uses of a surface water may include full body contact, partial body contact, domestic water source, fish consumption, aquatic and wildlife (cold water fishery), aquatic and wildlife (warm water fishery), aquatic and wildlife (ephemeral), aquatic and wildlife (effluent dependent water), agricultural irrigation, and agricultural livestock watering. The designated uses for specific surface waters are listed in Appendix B of this Article.
- C. Numeric water quality criteria to protect the designated uses are prescribed in Appendix A, R18-11-109, R18-11-110, and R18-11-112. Narrative standards to protect all surface waters are prescribed in R18-11-108.
- D. If a surface water has more than I designated use listed in Appendix B, then the most stringent water quality criterion applies.
- The Director shall revise the designated uses of a surface water if water quality improvements result in a level of water quality which permits a use that is not currently listed as a designated use in Appendix B.
- F. In designating uses of a surface water and in establishing water quality criteria to protect those designated uses, the Director shall take into consideration the applicable water quality standards for downstream surface waters and shall ensure that

the water quality standards that are established for an upstream surface water also provide for the attainment and maintenance of the water quality standards of downstream surface waters.

- G. A use attainability analysis shall be conducted prior to removal of a designated use or adoption of a subcategory of a designated use that requires less stringent water quality criteria.
- H. The Director may remove a designated use or adopt a subcategory of a designated use that requires less stringent water quality criteria, provided the designated use is not an existing use and it is demonstrated through a use strainability analysis that attaining the designated use is not feasible for any of the following reasons:
 - Naturally occurring pollutant concentrations prevent the attainment of the use;
 - Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use;
 - Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place;
 - 4. Dams, diversions, or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the surface water to its original condition or to operate such modification in a way that would result in attainment of the use;
 - Physical conditions related to the natural features of the surface water, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life designated uses; or
 - Controls more stringent than those required by §§ 301(b) and 306 of the Clean Water Act are necessary to attain the use and implementation of such controls would result in substantial and widespread economic and social impact.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-105. Tributary

The following water quality standards apply to a surface water that is not listed in Appendix B but that is tributary to a listed surface water:

- For an unlisted tributary that is an ephemeral water, the aquatic and wildlife [ephemeral] and partial body contact standards apply.
- For an unlisted tributary that is an effluent dependent water, the aquatic and wildlife [effluent dependent water] standards and partial body contact standards apply.
- 3. For an unlisted tributary that is not an ephemeral water or an effluent dependent water and which has salmonids present, the aquatic and wildlife [cold water fishery] and fish consumption standards apply as well as the water quality standards that have been established for the nearest downstream surface water listed in Appendix B that is not an ephemeral water or an effluent dependent water.
- 4. For an unlisted tributary that is not an ephemeral water or an effluent dependent water and which does not have salmonids present, the aquatic and wildlife [warm water fishery] and fish consumption standards apply as well as the water quality standards which have been established for the nearest downstream surface water listed in Appendix B that is not an ephemeral water or effluent dependent water.

Historical Note Adopted effective April 24, 1996 (Supp. 96-2).

R18-11-106. Net Ecological Benefit

- A. The Director may, by rule, modify a water quality standard on the ground that there is a net ecological benefit associated with the discharge of effluent to support or create a riparian and aquatic habitat in an area where such water resources are limited. The Director may modify a water quality standard for a pollutant if it is demonstrated that:
 - The discharge of effluent creates or supports an ecologically valuable aquatic, wetland, or riperian ecosystem in an area where such resources are limited.
 - The ecological benefits associated with the discharge of effluent under a modified water quality standard exceed the environmental costs associated with the elimination of the discharge of effluent.
 - 3. The cost of treatment to achieve compliance with a water quality standard is so high that it is more cost effective to eliminate the discharge of effluent to the surface water. The discharger shall demonstrate that it is feasible to eliminate the discharge of effluent which creates or supports the ecologically valuable aquatic, wetland, or riparian ecosystem and that a plan to eliminate the discharge is under active consideration.
 - The discharge of effluent to the surface water will not cause or contribute to a violation of a water quality standard that has been established for a downstream surface water.
 - All practicable point source discharge control programs, including local pretreatment, waste minimization, and source reduction programs, are implemented; and
 - 6. The discharge of effluent does not produce or contribute to the concentration of a pollutant in the tissues of aquatic organisms or wildlife that is likely to be harmful to humans or wildlife through food chain concentration.
- B. The Director shall not modify a water quality criterion for a pollutant to be less stringent than a technology-based effluent limitation which applies to the discharge of that effluent. The discharge of effluent which creates or supports and ecologically valuable aquatic, riparian, or wetland ecosystem shall, at a minimum, comply with applicable technology-based effluent limitations.

Historical Note Adopted effective April 24, 1996 (Supp. 96-2).

R18-11-107. Antidegradation

- A. The Department shall determine whether there is any degradation of water quality in a surface water on a pollutant by pollutant basis.
- B. Tier 1: The level of water quality necessary to protect existing uses shall be maintained and protected. No degradation of existing water quality is permitted in a surface water where the existing water quality does not meet the applicable water quality standard.
- C. Tier 2: Where existing water quality in a surface water is better than the applicable water quality standard, the existing water quality shall be maintained and protected. The Director may allow limited degradation of existing water quality in the surface water, provided that the Department has held a public hearing on whether degradation should be allowed pursuant to the general public hearing procedures prescribed at R18-1-401 and R18-1-402 and the Director makes all of the following findings:
 - The level of water quality necessary to protect existing uses is fully protected.

- 2. The highest statutory and regulatory requirements for all new and existing point sources as set forth in the Clean Water Act are achieved.
- 3. All cost-effective and reasonable best management practices for nonpoint source control are implemented.
- Allowing lower water quality is necessary to accommodate important economic or social development in the area in which the surface water is located.
- D. Tier 3: Existing water quality shall be maintained and protected in a surface water that is classified as a unique water or that the Director has proposed for classification as a unique water pursuant to R18-11-112. The Director shall not allow limited degradation of a unique water pursuant to subsection (C) of this Section.
- E. The Department shall implement this Section in a manner consistent with §316 of the Clean Water Act where a potential water quality impairment associated with a thermal discharge is involved.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-108. Narrative Water Quality Standards

- A. A surface water shall be free from pollutants in amounts or combinations that:
 - Settle to form bottom deposits that inhibit or prohibit the habitation, growth, or propagation of aquatic life or that impair recreational uses;
 - Cause objectionable odor in the area in which the surface water is located;
 - 3. Cause off-taste or odor in drinking water,
 - 4. Cause off-flavor in aquatic organisms or waterfowl;
 - 5. Are toxic to humans, animals, plants, or other organisms;
 - 6. Cause the growth of algae or aquatic plants that inhibit or prohibit the habitation, growth, or propagation of other aquatic life or that impair recreational uses;
 - 7. Cause or contribute to a violation of an aquifer water quality standard prescribed in R18-11-405 or R18-11-406; or
 - 8. Change the color of the surface water from natural background levels of color.
- B. A surface water shall be free from oil, grease, and other pollutants that float as debris, foam, or scum; or that cause a film or iridescent appearance on the surface of the water, or that cause a deposit on a shoreline, bank, or aquatic vegetation. The discharge of lubricating oil or gasoline associated with the normal operation of a recreational watercraft shall not be considered a violation of this narrative standard.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-109. Numeric Water Quality Standards

- A. The water quality standards prescribed in this Section and in Appendix A apply to surface waters listed in Appendix B and their tributaries. Additional numeric water quality standards for unique waters are prescribed in R18-11-112.
- B. The following water quality standards for fecal coliform, expressed in colony forming units per 100 milliliters of water (cfu/100 ml), shall not be exceeded:
 - Fecal Coliform

DWS. Agi. Agl

PBC. A&W1,

	minimum)	1000
	10% if samples for a 30-day period	2000
	Single sample maximum	4000
2.	Fecal Coliform in effluent dependent waters	All designated areas
	30-day geometric mean (5 sample minimum)	200
	10% if samples for a 30-day period	400
•	Single sample maximum	800

C. The following water quality standards for Escherichia coli [E. colil, expressed in colony forming units per 100 milliliters of water (cfu/100 ml), shall not be exceeded:

E. coli FBC 30-day geometric mean (5 sample minimum) 130

Single sample maximum The following water quality standards for pH, expressed in

standard units, shall not be violated:

<u>pH</u>	<u>DWS</u>	FBC.PBC.A&W	Agi	<u>Aei</u>
Maximum	9.0	9.0	9.0	9.0
Minimum	5.0	6.5	4.5	6.5
Maximum			-	

change

due to

discharge NNS 0.5 NNS NNS

The following maximum allowable increase in ambient water temperature, expressed in degrees Celsius, shall not be exceeded:

A&Wc A&Ww,A&Wedw Temperature Maximum increase

due to a discharge^{3,4} 3.0 The following water quality standards for turbidity, expressed

as a maximum concentration in nephelometric turbidity units (NTU), shall not be exceeded:

A&Wc A&Ww.A&Wedw Turbidity Rivers, streams and other flowing 10 Waters 50 Lakes, reservoirs.

tanks and ponds G. The following are the water quality standards for dissolved oxygen, expressed in milligrams per liter (mg/L). The dissolved oxygen concentration in a surface water shall not fall below the following minimum concentrations:

 Dissolved oxygen A&Ww A&Wc 7.0 Single sample minimum³

Dissolved oxygen in effluent dependent waters

A& Wedw [single sample minimum]: 3 hours after sunrise to sunset 3.0 Sunset to 3 hours after sunrise

If the dissolved oxygen (mg/L) of a surface water is less than the water quality standard for dissolved oxygen, but the percent saturation of oxygen is equal to or greater than 90%, then the surface water shall be deemed to be in

30-day geometric mean (5 sample

compliance with the water quality standard for dissolved

H. The following water quality standards for total phosphorus and total nitrogen, expressed in milligrams per liter (mg/L), shall not be exceeded:

Annual	<u>90th</u>	Single
mean	percentile	Sample
		Max-
		mum

1. Verde River and its tributaries from headwaters to Bartlett Lake:

Total phosphorus 0.10 0.30 1.00 Total nitrogen 1.00 1.50 3.00

2. Black River, Tonto Creek, and their tributaries that are not located on tribal lands: Total phosphorus 0.20 0.10 0.80 Total nitrogen 0.50 1.00 2.00

Salt River and its tributaries, except Pinal Creek, above Theodore Roosevelt Lake that are not located on tribal lands:

Total phosphorus 0.12 0.30 1.00 Total nitrogen 0.60 1.20 2.00

4. Theodore Roosevelt, Apache, Canyon, and Saguaro Lakes:

Total phosphorus 0.034 NNS 0.60 1.00^b Total nitrogen 0.304 NNS

5. Salt River below Stewart Mountain Dam to confluence with the Verde River:

Total phosphorus 0.05 NNS 0.20 Total nitrogen 0.60 NNS 3.00

6. Little Colorado River and its tributaries above River Reservoir in Greer, South Fork of Little Colorado River above South Fork Campground; Water Canyon Creek above Apache-Sitgreaves National Forest boundary: 80.0 Total phosphorus 0.10 0.75

Total nitrogen 0.60 0.75 1.10 7. Little Colorado River at crossing of Apache County Road No. 124

NNS Total phosphorus NNS 0.75 NNS NNS 1.80 Total nitrogen

8. Little Colorado River above Lyman Lake to above Amity Ditch diversion near crossing of Arizona Highway 273 (applies only when in-stream turbidity is less than 50 NTU):

Total phosphorus 0.20 0.30 0.75 1.50 0.70 1.20 Total nitrogen

9. Colorado River, at Northern International Boundary near Morelos Dam: Total phosphorus NNS 0.33 NNS

NNS Total nitrogen NNS 2.50 10. San Pedro River, from Curtiss to Benson: NNS NNS NNS Total phosphorus

NNS NNS Total nitrate as N 11. The discharge of wastewater to Show Low Creck and tributaries upstream of and including Fools Hollow Lake shall not exceed 0.16 mg/l total phosphates as P.

10.00

12. The discharge of wastewater to the San Francisco River and tributaries upstream of Luna Lake Dam shall not exceed 1.0 mg/l total phosphates as P.

The following water quality standards for radiochemicals shall not be exceeded:

In all surface waters, the concentration of radiochemicals shall not exceed the limits established by the Arizona Radiation Regulatory Agency in 12 A.A.C. 1 Article 4, Appendix A, Table II, Column 2 (effective June 30, 1977) and no future amendments), which is incorporated by

reference and on file with the Office of the Secretary of State and with the Department.

2. In surface waters that are designated as domestic water sources, the following water quality standards for radiochemicals shall not be exceeded:

The concentration of gross alpha particle activity, including radium-226 but excluding radon and uranium, shall not exceed 15 picocuries per liter of Water.

The concentration of combined radium-226 and radium-228 shall not exceed 5 picocuries per liter of

c. The concentration of strontium-90 shall not exceed 8 picocuries per liter of water.

d. The concentration of tritium shall not exceed 20,000 picocuries per liter of water.

e. The average annual concentration of beta particle activity and photon emitters from man-made radionuclides shall not produce an annual dose equivalent to the total body or any internal organ greater than 4 millirems per year.

Footnotes:

Includes A&Wc, A&Ww and A&We.

Includes A&Wc, A&Ww, A&Wedw and A&We.

Does not apply to Cholla Lake.

Does not apply to a wastewater treatment plant discharge to a dry watercourse that creates an effluent dependent water.

The dissolved oxygen water quality standard for a lake shall apply below the surface but not at a depth greater than 1 meter.

means annual mean of representative composite samples taken from the surface and at 2 and 5 meter depths.

means maximum for any set of representative composite samples taken from the surface and at 2 and 5 meter depths. •

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-116. Salinity of the Colorado River

The flow-weighted average annual salinity in the lower main stem of the Colorado River shall be maintained at or below the following concentrations:

Location To	nal Dissolved Solids
Below Hoover Dam	723 mg/L
Below Parker Dam	747 mg/L
At Imperial Dam	279 ma/l

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1).

R18-11-111. Analytical Methods

- A. A person conducting an analysis of a sample taken to determine compliance with a water quality standard shall use an approved analytical method prescribed in 9 A.A.C. 14, Article 6, or an alternative analytical method that is approved by the Director of the Department of Health Services under R9-14-607(B).
- A test result from a sample taken to determine compliance with a water quality standard is valid only if the sample has been analyzed by a laboratory that is licensed by the Arizona Department of Health Services for the analysis performed.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-112. Unique Waters

A. The Director shall use rulemaking to classify a surface water as a unique water.

- B. The Director may adopt, by rule, site-specific water quality standards to maintain and protect existing water quality in a
- C. Any person may nominate a surface water for classification as a unique water by filing a petition for rule adoption with the Department. A petition for rule adoption to classify a surface water as a unique water shall include:
 - 1. A map and a description of the surface water:
 - 2. A written statement in support of the nomination. including specific reference to the applicable criteria for unique waters classification as prescribed in subsection (D) of this Section;
 - 3. Supporting evidence demonstrating that 1 or more of the applicable unique waters criteria prescribed in subsection (D) of this Section has been met; and
 - Available water quality data relevant to establishing baseline water quality of the proposed unique water.
- D. The Director may classify a surface water as a unique water upon finding that the surface water is an outstanding state resource water based upon 1 of the following criteria:
 - 1. The surface water is of exceptional recreational or ecological significance because of its unique attributes, including but not limited to, attributes related to the geology, flora, fauna, water quality, aesthetic values, or the wilderness characteristics of the surface water.
 - 2. Threatened or endangered species are known to be associated with the surface water and the existing water quality is essential to the maintenance and propagation of a threatened or endangered species or the surface water provides critical habitat for a threatened or endangered species. Endangered or threatened species are identified on the following lists which are hereby incorporated by reference and on file with the Office of the Secretary of State and with the Department:
 - Endangered and Threatened Wildlife and Plants, 50 CFR 17.11 and 17.12 (revised as of October 1, 1994);
 - "Threatened Native Wildlife of Arizona," Arizona Game and Fish Department (July 21, 1988);
 - List of highly safeguarded protected native plants in 3 A.A.C. 4, Article 6, Appendix A(A) (December 20, 1994);
 - d. Federally Listed Threatened and Endangered Species of Arizona," U.S. Fish & Wildlife Service (June 6, 1995).
- E. The following surface waters are classified as unique waters:
 - The West Fork of the Little Colorado River, above Government Springs;
 - Oak Creek, including the West Fork of Oak Creek;
 - Peeples Canyon Creek, tributary to Santa Maria River;
 - Burro Creek, above its confluence with Boulder Creek;
 - Francis Creek, Mohave and Yavapai counties;
 - Bonita Creek, tributary to the upper Gila River,
 - Cienega Creek, from I-10 bridge to Del Lago Dam, Pima
 - Aravaipa Creek, from confluence of Stowe Gulch to the downstream boundary of the Aravaipa Canyon Wilderness Area:
 - Cave Creek and South Fork of Cave Creek [Chiricahua Mountains], from headwaters to the Coronado National Forest boundary; and
 - 10. Buchman Canyon Creek, from headwaters [Lat. 32°24'55.5" N, Long. 110°39'43.5" W] to approximately 9.8 miles downstream [Lat. 32°24'31.5" N, Long. 110°32'08" W].

F. The following water quality standards apply to the listed unique waters. Water quality standards prescribed in this subsection supplement the water quality standards prescribed pursuant to R18-11-109.

.The West Fork of the Little Colorado River, above

Government Springs:

Parameter Standard no change due to discharge pH (standard units) no incresse due to discharge Temperature no decrease due to discharge Dissolved oxygen Total dissolved solids no increase due to discharge Chromium (as Cr)(D) 10 µg/L

Oak Creek, including the West Fork of Oak Creek:

Parameter pH (standard units) no change due to discharge Nitrogen (T) 1.00 mg/L (annual mean) 1.50 mg/L (90th percentile) 2.50 mg/L (single sample mex.

Phosphorus (T) 0.10 mg/L (annual mean) 0.25 mg/L (90th percentile)

0.30 mg/L (single sample

Peeples Canyon Creek, tributary to Santa Maria River:

<u>Parameter</u> Standard Temperature no increase due to discharge Dissolved oxygen no decrease due to discharge Turbidity change due to discharge SNTU

Arsenic (T) 20 µg/L Manganese (T) 500 µg/L Burro Creek, above its confluence with Boulder Creek:

Manganese (T) 500 µg/L

Francis Creek, Mohave and Yavapai Counties: Standard

Parameter Manganese (T) 500 ug/L

Cienega Creek, from I-10 bridge to Del Lago Dam, Pima County:

Standard Parameter pΗ No change due to discharge No increase due to discharge Temperature Dissolved oxygen No decrease due to discharge No increase due to discharge Total dissolved solids 10 NTU Turbidity

Bonita Creek, tributary to the Upper Gila River.

Standard Parameter DH No change due to discharge Temperature No increase due to discharge Dissolved oxygen No decrease due to discharge No increase due to discharge Total dissolved solids 15 NTU

Turbidity

Abbreviations:

(D) means dissolved fraction (T) means total recoverable

NTU means nephelometric turbidity unit

mg/L means milligrams per liter µg/L means micrograms per liter

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-113. Effluent Dependent Waters

A. The Director shall use rulemaking to classify a surface water as an effluent dependent water.

- B. The Director may adopt, by rule, site-specific water quality standards for an effluent dependent water.
- C. Any person may submit a petition for rule adoption requesting that the Director classify a surface water as an effluent dependent water. The petition for rule adoption shall include:

A map and a description of the surface water.

- Information that demonstrates that the surface water consists primarily of discharges of treated wastewater.
- D. The following surface waters are classified as effluent dependent waters:
 - 1. In the Colorado River Main Stem Basin:
 - Bright Angel Wash from South Rim Grand Canyon WWTP outfall to confluence with Coconino Wash.
 - b. Cataract Creek from Williams WWTP outfall to 1 kilometer downstream from the outfall.
 - Holy Moses Wash from Kingman WWTP outfall to 3 kilometers downstream from the outfall.
 - Transept Canyon from North Rim Grand Canyon WWTP outfall to 1 kilometer downstream.
 - In the Little Colorado River Basin:
 - a Dry Lake.
 - b. Lake Humphreys.
 - c. Lower Walnut Canyon Lake.
 - d. Ned Lake.
 - e. Pintail Lake.
 - f. Telephone Lake.
 - g. Rio de Flag from City of Flagstaff WWTP outfall to confluence with San Francisco Wash.
 - h. Whale Lake.
 - In the Middle Gila River Basin:
 - a. Unnamed wash from the Town of Prescott Valley WWTP outfall to the confluence with the Agua Fria River, and the Agua Fria River below the confluence with the unnamed wash receiving treated wastewater from the Prescott Valley WWTP to State Route 169.
 - Agua Fria River from El Mirage WWTP outfall to 2 kilometers downstream from the outfall.
 - Gila River from Florence WWTP outfall to Felix Road.
 - d. Gils River from confluence with the Salt River to Gillespie Dam.
 - Queen Creek from Superior Mining Division discharge outfall to confluence with Potts Canyon.
 - Unnamed wash from Gila Bend WWTP outfall to confluence with Gila River.
 - g. Unnamed wash from Luke AFB WWTP outfall to the confluence with Agua Fria River.
 - h. Unnamed wash from Queen Valley WWTP outfall to confluence with Queen Creek.
 - 4. In the Rios de Mexico Basin:
 - Mule Gulch, from Bisbee WWTP outfall to confluence with Whitewater Draw.
 - b. Unnamed wash from Bisbee-Douglas International Airport WWTP outfall to Whitewater Draw.
 - 5. In the Salt River Basin:
 - Unnamed wash from Globe WWTP outfall to confluence with Pinal Creek and from confluence of unnamed wash and Pinal Creek to Radium.
 - b. Salt River from 23rd Avenue WWTP outfall to confluence with the Gila River.
 - In the San Pedro River Basin:
 - Unnamed wash from Mt. Lemmon WWTP outfall to 0.25 kilometers downstream.
 - Walnut Guich from Tombstone WWTP outfall to confluence with Tombstone Guich.
 - In the Santa Cruz River Basin:

- Santa Cruz River from Nogales International WWTP outfall to Tubac Bridge.
- Santa Cruz River from Roger Road WWTP outfall to Baumgartner Road crossing.
- e. Unnamed wash from Oracle WWTP outfall to 5 kilometers downstream.
- d. Sonoita Creek from Town of Paragonia WWTP outfall to 750 feet downstream.
- 8. In the Upper Gila River Basin:
 - Bennett Wash from Arizona Department of Corrections-Safford WWTP outfall to Gila River.
 - Unnamed wash from Arizons Department of Corrections-Globe WWTP outfall to the boundary of the San Carlos Indian Reservation.
- 9. In the Verde River Basin:
 - a. American Gulch from Northern Gila County Sanitary District WWTP outfall to the East Verde River.
 - Bitter Creek from Jerome WWTP outfall to 2.5 kilometers downstream from the outfall.
 - Jacks Canyon Wash from Big Park WWTP outfall to confluence with Dry Beaver Creek.
- E. The NPDES permit issuing authority shall use the water quality standards that apply to an effluent dependent water to derive discharge limitations for a point source discharge from a wastewater treatment plant to an ephemeral water which changes that ephemeral water into an effluent dependent water.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective December 18, 1992 (Supp. 92-4). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-114. Mixing Zones

- A. The Director may, by order, establish a mixing zone in a surface water. Mixing zones are prohibited in ephemeral waters or where there is no water for dilution.
- B. The owner or operator of a point source seeking the establishment of a mixing zone shall submit a mixing zone application to the Department on a standard form that is available from the Department. The application shall include:
 - Identification of the pollutant for which the mixing zone is requested;
 - A proposed outfall design;
 - A definition of the boundary of the proposed mixing zone. For purposes of this subsection, the boundary of a mixing zone means the location where the concentration of treated wastewater across a transect of the surface water differs by less than 5%.
 - 4. A complete and detailed description of the existing physical, biological and chemical conditions of the receiving water and of the predicted impact on such conditions from the proposed mixing zone.

 Information which demonstrates that there will be no acute toxicity in the proposed mixing zone.

- C. The Department shall review the application for a mixing zone to determine whether the application is complete. If the application is incomplete, the Department shall identify in writing the additional information that must be submitted to the Department before the Department can take administrative action on the application for a mixing zone.
- D. When the application for a mixing zone is complete, the Department shall make a preliminary determination of whether to establish the mixing zone. The Department shall give public notice and provide an opportunity for a public hearing on whether to establish a mixing zone pursuant to the

administrative procedures prescribed in R18-1-401 and R18-1-402.

- E. In making the determination of whether to grant or deny the request for the establishment of a mixing zone, the Director shall consider the following factors: sediment deposition, bioaccumulation, bioconcentration, predicted exposure of biota and the likelihood that resident biota will beadversely affected, whether there will be acute toxicity in the mixing zone, the known or predicted safe exposure levels for the pollutant of concern, the likelihood of adverse human health effects, the size of the mixing zone, location of the mixing zone relative to biologically sensitive areas in the surface water, concentration gradient within the mixing zone, the physical habitat, the potential for attraction of aquatic life to the mixing zone, and the cumulative impacts of other mixing zones and other discharges to the surface water.
- F. The Director shall deny the request to establish a mixing zone if water quality standards outside the boundaries of the proposed mixing zone will be violated or if concentrations of pollutants within the proposed mixing zone will cause acute toxicity to aquatic life. Denials of applications for a mixing zone shall be in writing and shall state the reasons for the denial. If the Director determines that a mixing zone should be established, he shall issue an order to establish the mixing zone. The Director may include conditions in the order that the Director deems necessary to protect human health and the designated uses of the surface water. A copy of the Director's decision and order shall be sent by certified mail to the applicant.
- G. Any person who is adversely affected by an order of the Director pertaining to a mixing zone may appeal the Director's decision to an administrative law judge pursuant to A.R.S. § 49-321.
- H. The Department shall reevaluate a mixing zone upon issuance, reissuance, or modification of the National Pollutant Discharge Elimination System permit for the point source or modification of the outfall structure.
- L The length of the mixing zone shall not exceed 500 meters in flowing streams. The total horizontal area allocated to all mixing zones on a lake shall not exceed 10% of the surface area of the lake. Adjacent mixing zones in a lake shall be no closer than the greatest horizontal dimension of any of the individual mixing zones.
- J. A mixing zone shall provide for a zone of passage of not less than 50% of the cross-sectional area of the river or stream.
- K. The discharge outfall shall be designed to maximize initial dilution of the treated wastewater in a surface water.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-115. Nutrient Waivers

- A. The Department may waive the water quality standards for total phosphorus or total nitrogen on a discharger-specific basis for a discharge to an ephemeral water which is tributary to a surface water for which water quality standards for total nitrogen or total phosphorus are prescribed in R18-11-109(H).
- B. A discharger who seeks a nutrient waiver shall submit an application to the Department on a standard form that is available from the Department. The application shall include:
 - Identification of the applicant.
 - Information on the discharging facility, including:
 - a. Date the facility was placed in service;
 - b. Location of the facility;
 - c. Location of the discharge point;
 - d. Wastewater treatment method; and

e. Discharge flow.

- 3. Information on the receiving surface water, including:
 - a. Name of the receiving water,
 - b. Distance in river miles to the nearest downstream surface water, and
 - c. Distance from the point of discharge to the point where the flow goes subsurface during an average dry season.
- 4. Information which demonstrates that the nearest downstream surface water is free from pollutants in amounts or combinations which cause the growth of algae or aquatic plants that inhibit or prohibit the habitation, growth or propagation of other aquatic life or that impair recreational uses.
- 5. Water quality data, including:
 - Monthly average, 90th percentile and single sample maximum concentrations of total phosphorus and total nitrogen as measured at the point of discharge;
 - Monthly average, 90th percentile and single sample maximum concentrations of total phosphorus and total nitrogen as measured at a downstream control point established by the Department; and
 - c. Discharge flow at the time of sampling.
- C. The Department shall review the application for completeness and shall notify the applicant in writing whether the application is complete or whether additional information needs to be submitted to the Department.
- D. Once an application for a nutrient waiver is complete, the Department shall make a preliminary determination of whether to grant or deny the nutrient waiver. The Department shall issue public notice and provide an opportunity for a public hearing on whether the request for a nutrient waiver should be granted pursuant to procedures prescribed in A.A.C. R18-1-401 and R18-1-402.
- E. The Director may, by order, grant a nutrient waiver provided the discharge will not cause a violation of a water quality standard for total phosphorus or total nitrogen in any downstream, surface water or cause a violation of narrative standards prescribed in R18-11-108. A copy of the Director's decision and order shall be sent by certified mail to the applicant.
- F. Any person who is adversely affected by an order granting or denying a nutrient waiver may appeal the decision to an administrative law judge pursuant to A.R.S. § 49-321.
- G. A nutrient waiver expires after a fixed term not to exceed 5 years. The Department shall reevaluate a nutrient waiver upon issuance, reissuance, or modification of the National Pollutant Discharge Elimination System permit for the point source.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-116. Resource management agencies

Nothing in this Article shall be construed to prohibit fisheries management activities by the Arizona Game and Fish Department or the U.S. Fish and Wildlife Service. This provision does not exempt fish hatcheries from National Pollutant Discharge Elimination System permit requirements.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1).

R18-11-117. Canals and Municipal Park Lakes

A. Nothing in this Article shall be construed to prevent the routine physical or mechanical maintenance of canals, drains, and the municipal park lakes identified in Appendix B. Physical or mechanical maintenance includes dewatering.

lining dredging and the physical, biological or chemical control of weeds and algae. Increases in turbidity that result from physical or mechanical maintenance activities are permitted in canals, drains, and the municipal park lakes identified in Appendix B.

B. The discharge of lubricating oil that is associated with the start-up of well pumps which discharge to canals is not a violation of R18-11-108(B).

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-118. Dams and Flood Control Structures

- A. Increases in turbidity that result from the routine physical or mechanical maintenance of dams and flood control structures are not violations of this Article.
- B. Nothing in this Article shall be construed to require a person who operates a dam or flood control structure to operate the structure to cure or mitigate an exceedance of a water quality standard caused by another person.
- C. Nothing in this Article shall be construed to require the releases of water from dams.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-119. Natural background

Where the concentration of a pollutant exceeds a water quality standard and the exceedance is not caused by human activity but is due solely to naturally-occurring conditions, the exceedance shall not be considered a violation of the water quality standard.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1).

RIS-11-120. Enforcement

- A. Any person who causes a violation of a water quality standard or any provision of this Article is subject to the enforcement provisions prescribed in A.R.S. Title 49, Chapter 2, Article 4.
- B. The Department may establish a numeric water quality standard at a concentration that is below the practical quantitation limit. In such cases, the water quality standard is enforceable at the practical quantitation limit.
- C. The Department shall determine compliance with acute aquatic and wildlife criteria from the analytical result of a grab sample. Compliance with chronic aquatic and wildlife criteria shall be determined from the arithmetic mean of the analytical results of grab samples collected over a period of 4 consecutive days at a minimum rate of 1 grab sample per day.
- D. A person is not subject to penalties for violation of a water quality standard provided that the person is in compliance with the provisions of a compliance schedule issued pursuant to R18-11-121.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-121. Schedules of Compliance

A. A schedule to bring an existing point source into compliance with a new or revised water quality standard may be established in a National Pollutant Discharge Elimination System permit for the existing point source. A compliance schedule for an existing point source, other than a stormwater discharge, shall require compliance with a discharge limitation based upon a new or revised water quality standard no later than 3 years after the effective date of the National Pollutant Discharge Elimination System permit. In order for a schedule

- of compliance to be granted, the owner or operator of the existing point source shall demonstrate that all requirements under §301(b) and §306 of the Clean Water Act have been achieved and that the point source cannot comply with a discharge limitation based upon the new or revised water quality standard through the application of existing water pollution control technology, operational changes, or source reduction.
- B. A schedule of compliance shall not be established in a National Pollutant Discharge Elimination System permit for a new point source. For purposes of this subsection, a new point source means a point source, the construction of which commences after the effective date of a water quality standard. Commencement of construction means that the owner or operator of the point source has obtained the federal, state, and local approvals or permits necessary to begin physical construction of the point source and either:
 - 1. On-site physical construction program has begun; or
 - 2. The owner or operator has entered into a contract for physical construction of the point source and the contract cannot be cancelled or modified without substantial loss. For purposes of this subsection, "substantial loss" means in excess of 10% of the total cost incurred for physical construction.
- C. A schedule to bring a point source discharge of storm water into compliance with a water quality standard may be established in a National Poliutant Discharge Elimination System permit. A compliance schedule for a storm water discharge shall require implementation of all reasonable and cost-effective best management practices to control the discharge of pollutants in storm water.

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Amended effective April 24, 1996 (Supp. 96-2).

R18-11-122. Variances

- A. The Director may grant a variance from a water quality standard for a point source discharge provided the discharger demonstrates that treatment more advanced than that required to comply with technology-based effuent limitations is necessary to comply with the water quality standard and:
 - It is not technically feasible to achieve compliance within the next 5 years; or
 - The cost of the treatment would result in substantial and widespread economic and social impact.
- B. A variance may be granted only on a pollutant-specific basis. A point source discharge is required to comply with all other applicable water quality standards for which a variance is not granted.
- C. A variance applies only to a specific point source discharge. The granting of a variance does not modify a water quality standard. Other point source dischargers to the surface water shall comply with applicable water quality standards, including any water quality standard for which a variance has been granted for a specific point source discharge.
- D. A variance is for a fixed term not to exceed 5 years. Upon expiration of a variance, a point source discharger shall either comply with the water quality standard or apply for renewal of the variance. In order for a variance to be renewed, the applicant shall demonstrate reasonable progress towards compliance with the water quality standard during the term of the variance.
- E. The Department shall reevaluate a variance upon the issuance, reissuance, or modification of the National Pollutant Discharge Elimination System permit for the point source discharge.

- F. A person who seeks a variance from a water quality standard shall submit a letter to the Department requesting a variance. A request for a variance shall include the following information:
 - Identification of the specific pollutant and water quality standard for which a variance is sought;
 - 2. Identification of the receiving surface water,
 - 3. For an existing point source discharge, a detailed description of the existing discharge control technologies that are used to achieve compliance with applicable water quality standards. For a new point source discharge, a detailed description of the proposed discharge control technologies that will be used to achieve compliance with applicable water quality standards;
 - 4. Documentation that the existing or proposed discharge control technologies will comply with applicable technology-based effluent limitations and that more advanced treatment technology is necessary to achieve compliance with the water quality standard for which a variance is sought;
 - A detailed discussion of the reasons why compliance with the water quality standard cannot be achieved;
 - A detailed discussion of the discharge control technologies that are available for achieving compliance with the water quality standard for which a variance is sough;
 - 7. Documentation of 1 or both of the following:
 - a. That it is not technically feasible to install and operate any of the available discharge control technologies to achieve compliance with the water quality standard for which a variance is sought; or
 - That installation and operation of each of the available discharge technologies to achieve compliance with the water quality standard would result in substantial and widespread economic and social impact;

- Documentation that the point source discharger has reduced, to the maximum extent practicable, the discharge of the pollutant for which a variance is sought through implementation of a local pretreatment, source reduction, or waste minimization program;
- A detailed description of proposed interim discharge limitations which represent the highest level of treatment achievable by the point source discharge during the term of the variance. Interim discharge limitations shall not be less stringent than technology-based effluent limitations.
- G. In making a decision on whether to grant or deny the request for a variance, the Director shall consider the following factors: bioaccumulation, bioconcentration, predicted exposure of biota and the likelihood that resident biota will be adversely affected, the known or predicted safe exposure levels for the pollutant of concern, and the likelihood of adverse human health effects.
- H. The Department shall issue public notice and shall provide an opportunity for a public hearing on whether the request for a variance should be granted or denied pursuant to procedures prescribed in A.A.C R18-1-401 and R18-1-402.
- I. Any person who is adversely affected by a decision of the Director to grant or deny a variance may appeal the decision to an administrative law judge pursuant to A.R.S. § 49-321.
- J. The Department shall not grant a variance for a point source discharge to a unique water listed in R18-11-112.
- K. A variance is subject to review and approval by the Regional Administrator of the U.S. Environmental Protection Agency.

Historical Note Adopted effective April 24, 1996 (Supp. 96-2).

R18-11-123. Prohibition Against Discharge; Sabino Creek
The discharge of treated wastewater to Sabino Creek is prohibited.

Historical Note
Adopted effective April 24, 1996 (Supp. 96-2).

APPENDIX A. Numeric Water Quality Criteria

Table 1. Human Health and	Table 1. Human Health and Agricultural Designated Use Numeric Water Quality Criteria									
PARAMETER	CAS ¹ NUMBER	DWS ² (µg/L)	FC ² (µg/L)	FBC ² (µg/L)	PBC ¹ (µg/L)	AgI² (µg/L)	AgL¹ (µg/L)			
Acesephthene	83-32-9	420	2600	8400	8400	NNS	NNS			
Acenaphthylene	208-96-8	NNS	NNS	NNS	NNS	NNS	NNS			
Acrolein	107-02-8	110	750	2200	2200	NNS	NNS			
Acrylonitrile	107-13-1	0.06	0.64	2.6 .	NNS	NNS	NNS			
Alachior	15972-60-8	2	NNS	1400	1400	NNS	NNS			
Aldrin	309-00-2	0.002	0.0003	0.08	4.2	k	k			
Ammonia	7664-41-7	NNS	NNS	NNS	NNS	NNS	NNS			
Anthracene	120-12-7	2100	6300	42000	42000	NNS	NNS			
Antimony (as Sb)	7440-36-0	6 T	140 T	56 T	56 T	NNS	NNS			
Arsenic (as As)	7440-38-2	50 T	1450 T	50 T	50 T	2000 T	200 T			
Asbestos	1332-21-4	1	NNS	NNS	NNS	NNS	NNS			
Atrazine	1912-24-9	3	NNS	4900	4900	NNS	NNS			
Barium (as Ba)	7440-39-3	2000 T	NNS	9800 D	9800 D	NNS	NNS			
Benzene	71-43-2	5	120	48	NNS	NNS	NNS			
Benzidine	92-87-5	0.0002	0.002	0.006	420	0.01	0.01			
Benz (a) anthracene	56-55-3	0.003	0.00008	0.12	NNS	NNS	NNS			
Benzo (a) pyrene	50-32-8	0.2	0.002	0.2	NNS	NNS	NNS			
Benzo (ghi) perylene	191-24-2	NNS	NNS	NNS	NNS	NNS	NNS			
Benzo (k) fluoranthene	207-08-9	0.003	0.00001	0.12	NNS	NNS	NNS			
3,4-Benzofluoranthene	205-99-2	0.003	0.00004	0.12	NNS	NNS	NNS			
Beryllium (as Be)	7440-41-7	4T	0.21 T	4 T	700 T	NNS	NNS			
Bis (2-chloroethoxy) methane	111-91-1	NNS	NNS	NNS	NNS	NNS	NNS			
Bis (2-chloroethyl) ether	111-44-4	0.03	1.4	1.3	NNS	NNS	NNS			
Bis (2-chloroisopropyl) ether	108-60-1	280	15000	5600	5600	NNS	NNS			
Boron (as B)	7440-42-8	630	NNS	12600	12600	1000 T	ทพร			
Bromodichloromethane	75-27-4	TTHM	22	100	2800	NNS	NNS			
p-Bromodiphenyl ether	101-55-3	NNS	NNS	NNS	NNS	NNS	NNS			
Bromoform	75-25-2	ТТНМ	80	180	2800	NNS	NNS			
Bromomethane	74-83-9	9.8	7500	200	200	ทพร	NNS			
Butyl benzyl phthalate	85-68-7	1400	5000	28000	28000	NNS	NNS			

Table 1. Human Health an	Table 1. Human Health and Agricultural Designated Use Numeric Water Quality Criteria									
PARAMETER	CAS ¹ NUMBER	DWS ² (µg/L)	FC ² (µg/L)	FBC ² (μg/L)	PBC ² (µg/L)	Agl' (µg/L)	AgL ² (µg/L)			
Cadmium (as Cd)	7440-43-9	5 T	41 T	70 T	70 T	50 T	50 T			
Carbofuran	1563-66-2	40	NNS	700	700	NNS	NNS			
Carbon tetrachloride	56-23-5	5	5.5	11	98	NNS	NNS			
Chiordane	57-74-9	2	0.001	2	8.4	NNS	NNS			
Chlorine (total residual)	7782-50-5	NNS	NNS	14000	14000	NNS	NNS			
Chlorobenzene	108-90-7	100	500	2800	2800	NNS	NNS			
p-Chloro-m-cresol	59-50-7	NNS	NNS	NNS	NNS	NNS	NNS			
2-Chloroethyl vinyl ether	110-75-8	NNS	NNS	NNS	NNS	NNS	NNS			
Chloroform	67-66-3	TTHM	590	230	1400	NNS	NNS			
Chloromethane	74-87-3	NNS	NNS	NNS	NNS	NNS	NNS			
Chloronapthalene beta	91-58-7	560	13000	11000	11000	NNS	NNS			
2-Chiorophenol	95-57-8	35	2100	700	700	NNS	NNS			
4-Chlorophenyl phenyl ether	7005-72-3	NNS	NNS	NNS	NNS	NNS	NNS.			
Chromium (as Cr III)	16065-83-1	NNS	67000 T	140000 T	140000 T	NNS	NNS			
Chromium (as Cr VI)	18540-29-9	NNS	3400 T	700 T	700 T	NNS	NNS			
Chromium (Total as Cr)	7440-47-3	100 T	NNS	NNS	NNS	1000 T	1000 T			
Chrysene	218-01-9	0.003	.0001	0.12	NNS	NNS	NNS			
Copper (as Cu)	7440-50-8	1000 D	NNS	5200 D	5200 D	5000 T	500 T			
Cyanide	57-12-5	200 T	210000 T	2800 T	2800 T	NNS	200 T			
Dibenz (ah) anthracene	53-70-3	0.003	0.00003	0.12	NNS	NNS	NNS			
Dibromochloromethane	124-48-1	TIHM	12	17	2800	NNS	NNS			
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	NNS	NNS	NNS	NNS	NNS			
1,2-Dibromoethane (EDB)	106-93-4	0.05	NNS	1.6	NNS	NNS	NNS			
Dibutyl phthalate	84-74-2	700	2300	14000	14000	NNS	NNS			
1,2-Dichlorobenzene	95-50-1	600	2800	13000	13000	NNS	NNS			
1,3-Dichlorobenzene	541-73-1	94	2000	1880	1880	NNS	NNS			
1,4-Dichloroenzene	106-46-7	75	1200	1880	1880	NNS	NNS			
3,3'-Dichlorobenzidine	91-94-1	0.08	0.09	3.1	NNS	NNS	NNS			
p,p'-Dichlorodiphenyldichloroethane (DDD)	72-54-8	0.15	0.0009	5.8	NNS	0.001	0.001			
p,p'-Dichlorodiphenyldichloroethylene (DDE)	72-55-9	0.1	0.0006	4.1	NNS	0.001	0.001			
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	0.1	0.0005	4.1	70	0.001	0.001			

Table 1. Human Health :	and Agricultural I	Designated	Use Numeric	Water Quali	ity Criteria		,
PARAMETER	CAS ¹ NUMBER	DWS ² (µg/L)	FC ² (µg/L)	FBC ² (µg/L)	PBC ¹	AgI² (µg/L)	Agl² (µg/L)
1,1-Dichloroethane	75-34-3	NNS	NNS	NNS	NNS	NNS	NNS
1,2-Dichloroethane	107-06-2	5	120	15	NNS	NNS	NNS
1,1-Dichloroethylene	75-35-4	7	4.5	7	1300	NNS	NNS
1,2-cis-Dichloroethylene	156-59-2	70	NNS	NNS	NNS	NNS	NNS
1,2-trans-Dichloroethylene	156-60-5	100	13000	2800	2800	NNS	NNS
Dichloromethane	75-09-2	5	480	190	8400	NNS	NNS
2,4-Dichlorophenol	120-83-2	21	810	420	420	NNS	NNS
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70	NNS	1400	1400	NNS	NNS
1,2-Dichloropropane	78-87-5	5	NNS	NNS	NNS	NNS	NNS
1,3-Dichloropropene	542-75-6	0.2	6.6	7.8	42	NNS	NNS
Dieldrin	60-57-1	0.002	0.0002	0.09	7	k	k
Diethyl phthalate	84-66-2	5600	110000	110000	110000	NNS	NNS
Di(2-ethylhexyl) phthalate	117-81-7	6	7.4	100	2800	NNS	NNS
2,4-Dimethylphenol	105-67-9	140	2200	2800	2800	NNS	NNS
Dimethyl phthalate	131-11-3	70000	2800000	1400000	1400000	NNS	NNS
4,6-Dinitro-o-cresol	534-52-1	2.7	120	55	55	NNS	NNS
2,4-Dinitrophenol	51-28-5	14	5400	280	280	NNS	NNS
2.4-Dinitrotoluene	121-14-2	14	163	280	280	NNS	NNS
2,6-Dinitrotoluene	606-20-2	NNS	NNS .	NNS	NNS	NNS	NNS
Di-n-octyl phthalate	117-84-0	พพร	NNS	NNS	NNS	NNS	NNS
1.2-Diphenylhydrazine	122-66-7	0.04	0.25	1.8	NNS	NNS	NNS
Endosulfan sulfate	1031-07-8	0.35	0.78	7	7	NNS	NNS
Endosulfan (Total)	115-29-7	42	110	840	840	NNS	NNS
Endrin	72-20-8	0.2	1.1	40	40	0.004	0.004
Endrin aldehyde	7421-93-3	2.1	0.81	420	420	NNS	NNS
Ethylbenzene	100-41-4	700	110000	14000	14000	NNS	NNS
Ethyl chloride	75-00-3	NNS	NNS	NNS	NNS	NNS	NNS
Fluoranthene	206-44-0	280	130	5600	5600	NNS	NNS
Fluorene	86-73-7	280	580	5600	5600	NNS	NNS
Fluorine	7782-41-4	4000	NNS	8400	8400	NNS	NNS
Heptachior	76-44-8	0.4	0.0002	0.4	70	NNS	NNS

NUMBER Gug/L Gug	Table 1. Human Health a	and Agricultural	Designated	Use Numeric	Water Qual	ity Criteria		
Hexachlorobenzene	PARAMETER			1			1 -	AgL¹ (µg/L)
Hexachlorobutadiene	Heptachlor epoxide	1024-57-3	0.2	0.0001	0.2	2	NNS	NNS
Hexachlorocyclohexane alpha 319-84-6 0.006 0.03 0.22 NNS NNS NNS NNS NNS NNS NNS NNS NNS N	Hexachlorobenzene	118-74-1	1	0.002	1	280	NNS	NNS
Hexachlorocyclohexane beta 319-85-7 0.02 0.02 0.78 NNS NNS NNS NNS NNS NNS NNS NNS NNS NN	Hexachlorobutadiene	87-68-3	0.45	0.52	18	NNS	NNS	NNS
Hexachlorocyclobexame delta 319-86-8 NNS	Hexachlorocyclohexane alpha .	319-84-6	0.006	0.03	0.22	NNS	NNS	NNS
Hexachlorocyclobexane gamma (lindane) 58-89-9 0.2 0.02 1 42 NNS NNS Hexachlorocyclopentadiene 77-47-4 50 550 1000 1000 NNS NNS Hexachlorocthane 67-72-1 2.5 4.8 100 140 NNS NNS Indeno (1,2,3-od) pyrene 193-39-5 0.003 0.000003 0.12 NNS NNS NNS Isophorone 78-59-1 36.8 2300 1500 28000 NNS NNS Isophorone 7439-97-1 50 T NNS NNS NNS 10000 T 100 T Manganese (as Mn) 7439-96-5 4900 T NNS 19600 T 19600 T 10000 NNS Mercury (as Hg) 7439-97-6 2 T 0.6 T 42 T 42 T NNS 10 T Methoxychior 72-43-5 40 NNS 700 700 NNS NNS Naphthalene 91-20-3 NNS NNS NNS NNS NNS NNS Nickel (as Ni) 7440-02-0 100 T 730 T 2800 T 2800 T NNS NNS Nitrate (as N) 14797-55-8 10000 NNS 224000 224000 NNS NNS Nitrate (as N) 14797-65-0 1000 NNS 14000 14000 NNS NNS Nitrobenzene 98-95-3 3.5 600 70 70 NNS NNS Nnitrobenzene 98-95-3 3.5 600	Hexachlorocyclohexane beta	319-85-7	0.02	0.02	0.78	NNS	NNS	NNS
Hexachlorocyclopeniadiene	Hexachlorocyclohexane delta	319-86-8	NNS	NNS	NNS	NNS	NNS	NNS
Hexachloroethane	Hexachlorocyclohexane gamma (lindane)	58-89-9	0.2	0.02	1	42	NNS	NNS
Indeno (1,2,3-ed) pyrene	Hexachlorocyclopentadiene	77-47-4	50	550	1000	1000	NNS	NNS
Isophorone 78-59-1 36.8 2300 1500 28000 NNS NNS NNS Lead (as Pb) 7439-97-1 50 T NNS NNS NNS 10000 T 100 T Nns NNS NNS NNS 10000 T 100 T Nns Manganese (as Mn) 7439-96-5 4900 T NNS 19600 T 19600 T 10000 NNS Mercury (as Hg) 7439-97-6 2 T 0.6 T 42 T 42 T NNS 10 T Nns	Hexachloroethane	67-72-1	2.5	4.8	100	140	NNS	NNS
Lead (as Pb) 7439-97-1 50 T NNS NNS 10000 T 100 T Manganese (as Mn) 7439-96-5 4900 T NNS 19600 T 19600 T 10000 NNS Mercury (as Hg) 7439-97-6 2 T 0.6 T 42 T 42 T NNS 10 T Metboxychlor 72-43-5 40 NNS 700 700 NNS NNS Naphthalene 91-20-3 NNS <	Indeno (1,2,3-ed) pyrene	193-39-5	0.003	0.000003	0.12	NNS	NNS	NNS
Manganese (as Mn) 7439-96-5 4900 T NNS 19600 T 19600 T 10000 NNS Mercury (as Hg) 7439-97-6 2 T 0.6 T 42 T 42 T NNS 10 T Methoxychlor 72-43-5 40 NNS 700 700 NNS NNS Naphthalene 91-20-3 NNS	Isophorone	78-59-1	36.8	2300	1500	28000	NNS	NNS
Mercury (as Hg) 7439-97-6 2 T 0.6 T 42 T 42 T NNS 10 T Methoxychlor 72-43-5 40 NNS 700 700 NNS NNS Naphthalene 91-20-3 NNS NNS <td>Lead (as Pb)</td> <td>7439-97-1</td> <td>50 T</td> <td>MNS</td> <td>NNS</td> <td>NNS</td> <td>10000 T</td> <td>100 T</td>	Lead (as Pb)	7439-97-1	50 T	MNS	NNS	NNS	10000 T	100 T
Methoxychlor 72-43-5 40 NNS 700 700 NNS NNS Naphthalene 91-20-3 NNS NNS <td>Manganese (as Mn)</td> <td>7439-96-5</td> <td>4900 T</td> <td>NNS</td> <td>19600 T</td> <td>19600 T</td> <td>10000</td> <td>NNS</td>	Manganese (as Mn)	7439-96-5	4900 T	NNS	19600 T	19600 T	10000	NNS
Naphthalene 91-20-3 NNS	Mercury (as Hg)	7439-97-6	2 T	0.6 T	42 T	42 T	NNS	10 T
Nickel (as Ni) 7440-02-0 100 T 730 T 2800 T 2800 T NNS NNS Nitrate (as N) 14797-55-8 10000 NNS 224000 224000 NNS NNS <t< td=""><td>Methoxychlor</td><td>72-43-5</td><td>40</td><td>NNS</td><td>700</td><td>700 .</td><td>NNS</td><td>NNS</td></t<>	Methoxychlor	72-43-5	40	NNS	700	700 .	NNS	NNS
Nitrate (as N) 14797-55-8 10000 NNS 224000 224000 NNS NNS Nitrite (as N) 14797-65-0 1000 NNS 14000 14000 NNS NN	Naphthalene	91-20-3	NNS	NNS	NNS	NNS	NNS	NNS
Nitrite (as N) 14797-65-0 1000 NNS 14000 14000 NNS	Nickel (as Ni)	7440-02-0	100 T	730 T	2800 T	2800 T	NNS	NNS
Nitrate/Nitrite (as Total N) 10000 NNS N	Nitrate (as N)	14797-55-8	10000	NNS	224000	224000	NNS	NNS
Nitrobenzene 98-95-3 3.5 600 70 70 NNS NNS p-Nitrophenol 88-75-5 NNS NNS </td <td>Nitrite (as N)</td> <td>14797-65-0</td> <td>1000</td> <td>NNS</td> <td>14000</td> <td>14000</td> <td>NNS</td> <td>NNS</td>	Nitrite (as N)	14797-65-0	1000	NNS	14000	14000	NNS	NNS
6-Nitrophenol 88-75-5 NNS	Nitrate/Nitrite (as Total N)		10000	NNS	NNS	NNS	NNS	NNS
Description	Nitrobenzene	98-95-3	3.5	600	70	70	NNS	NNS
N-nitrosodimethylamine 62-75-9 0.0007 2.1 0.03 NNS NNS NNS N-nitrosodiphenylamine 86-30-6 7.1 14 290 NNS NNS NNS N-nitrosodi-n-propylamine 621-64-7 0.005 0.51 0.2 NNS NNS NNS Pentachlorophenol 87-86-5 1 8.2 11.7 2000 NNS NNS Phenanthrene 85-01-8 NNS NNS NNS NNS NNS NNS	o-Nitrophenol	88-75-5	NNS	NNS	NNS	NNS	NNS	NNS
N-nitrosodiphenylamine 86-30-6 7.1 14 290 NNS NNS NNS N-nitrosodi-n-propylamine 621-64-7 0.005 0.51 0.2 NNS NNS NNS Pentachlorophenol 87-86-5 1 8.2 11.7 2000 NNS NNS Phenanthrene 85-01-8 NNS NNS NNS NNS NNS NNS	p-Nitrophenol	100-02-7	NNS	NNS	NNS	NNS	NNS	NNS
N-nitrosodi-n-propylamine 621-64-7 0.005 0.51 0.2 NNS NNS NNS Pentachlorophenol 87-86-5 1 8.2 11.7 2000 NNS NNS Phenanthrene 85-01-8 NNS NNS NNS NNS NNS NNS	N-nitrosodimethylamine	62-75-9	0.0007	2.1	0.03	NNS	NNS	NNS
Pentachlorophenol 87-86-5 I 8.2 11.7 2000 NNS NNS Phenanthrene 85-01-8 NNS NNS <td< td=""><td>N-nitrosodiphenylamine</td><td>86-30-6</td><td>7.1</td><td>14</td><td>290</td><td>NNS</td><td>NNS</td><td>NNS</td></td<>	N-nitrosodiphenylamine	86-30-6	7.1	14	290	NNS	NNS	NNS
Phenanthrene 85-01-8 NNS NNS NNS NNS NNS NNS NNS	N-nitrosodi-n-propylamine	621-64-7	0.005	0.51	0.2	NNS	NNS	NNS
	Pentachlorophenol	87-86-5	1	8.2	11.7	2000	NNS	NNS
Phenol 108-95-2 4200 6500000 84000 NNS NNS	Phenanthrene	85-01-8	NNS	NNS	NNS	NNS	NNS	NNS
	Phenol	108-95-2	4200	6500000	84000	84000	NNS	NNS

Table 1. Human Health and Agricultural Designated Use Numeric Water Quality Criteria									
PARAMETER	CAS ¹ NUMBER	DWS ¹ (µ g/ L)	FC ² (µg/L)	FBC ² (µg/L)	PBC ¹	Agi ² (µg/L)	AgL ² (µg/L)		
Polychlorinatedbiphenyls (PCBs)	1336-36-3	0.5	0.00009	0.5	NNS	0.001	0.001		
Ругеле	129-00-0	210	1100	4200	4200	NNS	NNS		
Selenium (as Se)	7782-49-2	50 T	9000 T	700 T	700 T	20 T	50 T		
Silver (as Ag)	7440-22-4	NNS .	NNS	NNS	NNS	NNS	NNS		
Styrene	100-42-5	100	NNS	28000	28000	NNS	NNS		
Sulfides		NNS.	NNS .	NNS	NNS	NNS	NNS		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	1746-01-6	0.0000003	0.000000004	0.00009	NNS	NNS	NNS		
1,1,2,2-Tetrachloroethane	79-34-5	0.17	11	7	NNS	NNS	NNS		
Tetrachloroethylene	127-18-4	5	11	35	1400	NNS	NNS		
Thailium (as TI)	7440-28-0	2 T	41 T	12 T	12 T	NNS	NNS		
Toluene	108-88-3	1000	90000	28000	28000	NNS	NNS		
Toxaphene	8001-35-2	3	0.0008	3	NNS	0.005	0.005		
1,2,4-Trichlorobenzene	120-82-1	. 70	155	1400	1400	NNS	NNS		
1,1,1-Trichloroethane	71-55-6	200	NNS	NNS	NNS	NNS	NNS		
I,1,2-Trichloroethane	79-00-5	5	31	25	560	NNS	NNS		
Trichloroethylene	79-01-6	5	NNS	NNS	NNS	NNS	NNS		
2,4,6-Trichlorophenol	88-06-2	3.2	4.9	130	NNS	NNS	NNS		
2-(2,4,5-Trichlorophenoxy) proprionic acid (2,4,5-TP)	93-72-1	50	NNS	1120	1120	NNS	NNS		
Trihalomethanes, Total		100	NNS	NNS	NNS	NNS	NNS		
Uranium (as Ur)	7440-61-1	35 D	NNS	NNS	NNS	NNS	NNS		
Vinyl chloride	75-01-4	2	620	80	NNS	NNS	NNS		
Xylenes (Total)	1330-20-7	10000	NNS	280000	280000	NNS	NNS		
Zinc (as Zn)	7440-66-6	2100 T	22000 T	42000 T	42000 T	10000 T	25000		

Historical Note

Appendix A repealed, new Appendix A, Table 1 adopted effective April 24, 1996 (Supp. 96-2).

APPENDIX A. Numeric Water Quality Criteria

Tab	le 2. Aquatic & W	ildlife De	signated Us	e Numer	ic Water Q	uality Crise	ria		
· PARAMETER	CAS ¹ NUMBER	A&Wc Acute3 (µg/L)	1 .	A&Ww Acute3 (µg/L)	A&Ww Chronic4 (µg/L)	A&Wedw Acute3 (µg/L)	A&Wedw Chronic4 (µg/L)	A&We Acute3 (µg/L)	A&We Chronic (ug/L)
Acensphthene	£ 3-32-9	250	550	850	550	250	550	NNS	NNS
Acensphthylene	208-96-8	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Acrolein	107-02-8	34	30	34	30	34	30	NNS	NNS
Acrylonitrile	107-13-1	3800	250	3800	250	3800	250	NNS	NNS
Alachior	15972-60-8	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Aldrin	309-00-2	20	NNS	2.0	NNS	2.0	NNS	45 (NNS
Ammonia	7664-41-7	ъ	ь	ь	ь	NNS	NNS	NNS	NNS
Anthracene	120-12-7	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Antimony (as Sb)	7440-36-0	88 D	30 D	88 D	30 D	1000 D	600 D	NNS	NNS
Arsenic (as As)	7440-38-2	360 D	190 D	360 D	190 D	360 D	190 D	440 D	230 D
Asbestos	1332-21-4	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Atrazine	1912-24-9	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Barium (as Ba)	7440-39-3	MNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Benzene	71-43-2	2700	180	2700	180	11000	700	NNS	NNS
Benzidine	92-87-5	1300	89	1300	\$ 9	1300	8 9	10000	640
Benz (a) anthracene	56-55-3	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Benzo (a) pyrene	50-32-8	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Benzo (ghi) perylene	191-24-2	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Benzo (k) fluoranthene	207-08-9	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
3,4-Benzofluoranthene	205-99-2	NNS	NNS	NNS .	NNS	NNS	NNS.	NNS	NNS
Beryllium (as Be)	7440-41-7	65 D	53 D	65 D	5.3 D	65 D	5.3 D	NNS	NNS
Bis (2-chloroethoxy) methane	111-91-1	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Bis (2-chlorethyl) ether	111-44-4	120000	6700	120000	6700	120000	6700	NNS	NNS
Bis (2-chloroisopropyl) ether	108-60-1	NNS	NNS	NNS	NNS .	NNS	NNS	NNS	NNS
Boron (as B)	7440-42-8	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Bromodichloromethane	75-27-4	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
o-Bromodiphenyl ether	101-55-3	1\$0	14	180	14	180	14	NNS	NNS
3romoform	75-25-2	15000	10000	15000	10000	15000	10000	NNS	NNS
3romomethene	74-83-9	5500	360	5500	360	5500	360	NNS	NNS
Butyl benzyl phthalate	85-68-7	1700	130	1700	130	1700	130	NNS	NNS

Table 2.	Aquatic & W	ildlife Der	ignated Us	e Numeri	c Water Q	sality Crite	ria		
PARAMETER	CAS! NUMBER	A&Wc Acute3 (µg/L)	A&Wc Chronio4 (µg/L)	A&Ww Acute3 (µg/L)	A&Ww Chronic4 (µg/L)	A&Wedw Acute3 (µg/L)	A&Wedw Chronic4 (µg/L)	A&We Acute3 (µg/L)	A&We Chronics (µg/L)
Cadmium (as Cd)	7440-43-9	cD.	cD	e D	eD	cD	cD	cD	e D
Carbofuran	1563-66-2	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Carbon tetrachionide	56-23-5	18000	1100	18000	1100	18000	1100	NNS	NNS
Chlordane	57-74-9	2.4	0.004	2.4	0.21	2.4	0.21 ~	3.2	0.45
Chlorine (total residual)	7782-50-5	11 .	5.0	11	5.0	11 -	5.0	NNS	NNS
Chiorobenzene	108-90-7	9800	620	9800	620	NNS	NNS	NNS	NNS
p-Chiaro-m-cresol	59-50-7	15	4.7	15	4.7	15	4.7	48000	15000
2-Chloroethyl vinyl ether	110-75-8	180000	9800	120000	9800	180000	9800	NNS	NNS
Chloroform	67-66-3	14000	900	14000	900	14000	900	NNS	NNS
Chloromethane	74-87-3	270000	15000	270000	15000	270000	15000	NNS	NNS
Chloronapthalene beta	91-58-7	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
2-Chiorophenol	95-57-8 -	2200	150	2200	150	2200	150	NNS	NNS
4-Chlorophenyl phenyl ether	7005-72-3	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Chromium (as Cr III)	16065-83-1	dD	d D	d D	d D	d D	dD.	dD -	dD
Chromium (as Cr VI)	18540-29-9	16 D	11 D	16 D	11 D	16 D	11 D	34 D	23 D
Chromium (Total as Cr)	7440-47-3	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Chrysene	218-01-9	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Copper (as Cu)	7440-50-8	e D	e D	e D	e D	e D	e D	e D	e D
Cyanide	57-12-5	22 T	5.2 T	41 T	9.7 T	41 T	9.7 T	84 T	19 T
Dibenz (ah) anthracene	53-70-3	NNS	ŃNS	NNS	NNS	NNS	NNS	NNS	NNS
Dibromochloromethane	124-48-1	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	NNS	NNS	NNS	NNS	NNS	NNS.	NNS	NNS
1,2-Dibromoethane (EDB)	106-93-4	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Dibutyl phthalate	84-74-2	470	35	470	35	470	35	1100	84
1,2-Dichlorobenzene	95-50-1	790	300	1200	470	1200	470	5900	2300
1,3-Dichlorobenzene	541-73-1	2500	9 70	2500	970	2500	970	NNS	NNS
1,4-Dichlorobenzene	106-46-7	560	210	2000	780	2000	780	6500	2500
3,3°-Dichlorobenzidine	91-94-1	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
p.p'-Dichlorodiphenyldichloroethane (DDD)	72-54-8	1.1 .	0.001	1.1	0.02	1.1	0.02	1.1	0.02
p.p'-Dichlorodiphenyldichloroethylene (DDE)	72-55-9	1.1	0.001	1.1	0.02	1.1	0.02	1.1	0.03

	Aquetic & W				- mater Q		-		
PARAMETER	CAS ¹ NUMBER	A&Wc Acute3 (µg/L)	A&Wc Chronica (µg/L)	A&Ww Acme3 (µg/L)	A&Ww Chronic4 (µg/L)	A&Wedw Acute3 (µg/L)	A&Wedw Chronic4 (µg/L)	A&We Acute3 (µg/L)	A&Wa Chronic (ug/L)
p.p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1.1	0.001	1.1	0.001	1.1	0.001	1.1	0.006
1,1-Dichloroethane	75-34-3	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
1,2-Dichloroethane	107-06-2	59000	41000	59000	41000	59000	41000	NNS	NNS
1,1-Dichloroethylene	75-35-4	15000	950	15000	950	15000	950 ~	NNS	NNS
1,2-cis-Dichloroethylene	156-59-2	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
1,2-trans-Dichloroethylene	156-60-5	68000	3900	68000	3900	68000	3900	NNS	NNS
Dichloromethane	75-09-2	97000	5500	97000	5500	97000	5500	NNS	NNS
2,4-Dichlorophenol	120-83-2	1000	88	1000	8.8	1000	88	NNS	NNS
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
1.2-Dichloropropene	78-87-5	26000	9200	26000	9200	26000	9200	NNS	NNS
1,3-Dichloropropene	542-75-6	3000	1100	3000	1100	3000	1100	NNS	NNS
Dieldrin	60-57-1	2.5	0.002	2.5	0.002	2.5	0.005	4	0.9
Diethyl phthalate	84-66-2	26000	1600	26000	1600	26000	1600	NNS	NNS
Di(2-ethylhexyl) phthalate	117-81-7	400	360	400	360	400	360	3100	360
2,4-Dimethylphenol	105-67-9	1000	310	1000	310	1100	310	150000	43000
Dimethyl phthalate	131-11-3	17000	1000	17000	1000	17000	1000	NNS	NNS
4,6-Dinitro-o-cresol	534-52-1	310	24	310	24	310	24	NNS	NNS
2,4-Dinitrophenol	51-28-5	110	9.2	110	9.2	110	9.2	NNS	NNS
2,4-Dinitrotoluene	121-14-2	15000	970	15000	970	15000	970	NNS	NNS
2,6-Dinitrotoluene	606-20-2	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Di-n-octyl phthalate	117-84-0	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
2-Diphenylhydrazine	122-66-7	130	11	130	11	130	11	NNS	NNS
Endosulfan sulfate	1031-07-8	0.22	0.06	0.22	0.06	0.22	0.06	3.0	1.5
Endosulfan (Total)	115-29-7	0.22	0.06	0.22	0.06	0.22	0.06	3.0	1.5
Endrin	72-20-8	0.18	0.002	0.2	0.08	0.2	0.08	0.7	0,3
Endrin aldehyde	7421-93-3	0.18	0.002	0.2	80.0	0.2	0.08	0.7	0.3
Ethylbenzene	100-41-4	23000	1400	23000	1400	23000	1400	NNS	NNS
Ethyl chloride	75-00-3	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
luoranthene	206-44-0	2000	1600	2000	1600	2000	1600	NNS	NNS .

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Table 2.	Aquetic & W	ildlife Des	ignated Us	e Nameri	c Water Q	uslity Crite	rie		
PARAMETER	CAS ¹ NUMBER	A&Wc Acuse3 (µg/L)	A&Wc Chronic4 (µg/L)	A&Ww Acuse3 (µg/L)	A&Ww Chronic4 (µg/L)	A&Wedw Acute3 (µg/L)	A&Wedw Chronic4 (µg/L)	A&We Acute3 (µg/L)	A&We Chronic (µg/L)
Fluorene	86-73-7	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Fluorine	7782-41-4	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Heptachlor	76-44-8	0.52	0.004	0.52	0.004	0.58	0.013	0.9	0.1
Heptachior epoxide	1024-57-3	0.52	0.004	0.52	0.004	0.58	0.013	0.9	0.1
Hexachlorobenzene	118-74-1	6.0	3.7	NNS	NNS	NNS	NNS	NNS	NNS
Hexachlorobutadiene	87-68-3	45	8.2	45	8.2	45	8.2	NNS	NNS
Hexachlorocyclobecane alpha	319-84-6	1600	130 .	1600	130	1600	130	1600	130
Hexachlorocyclohexane beta	319-85-7	1600	130	1600	130	1600	130	1600	130
Hexachlorocyclobexane delta	319-86-8	1600	130	1600	130	1600	130	1600	130
Hexachlorocyclohexane gamma (lindane)	58-89-9	2.0	0.08	3.4	0.28	7.6	0.61	11	0.9
Hexachlorocyclopentadiene	17-47-4	3.5	0.3	3.5	0.3	3.5	0.3	NNS	NNS
Hexachloroethane	67-72-1	490	350	490	350	490	350	8 50	610
Indeno (1,2,3-cd) pyrene	193-39-5	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Isophorone	78-59-1	59000	43000	59000	43000	59000	43000	NNS	NNS
Lead (as Pb)	7439-97-1	fD	fD	fD	fD	fD	fD	fD	fD
Manganese (as Mn)	7439-96-5	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Mercusy (as Hg)	7439-97-6	2.4 D	0.01 D	2.4 D	0.01 D	2.6 D	0.2 D	5.0 D	27 D
Methoxychlor	72-43-5	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Naphthalene	91-20-3	1100	210	3300	600	3300	600	NNS	NNS .
Nickel (as Ni)	7440-02-0	gD .	g D	gD	g D	g D	g D	g D	gD
Nitrate (as N)	14797-55-8	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Nitrite (as N)	14797-65-0	NNS	NNS	NNS	NNS	NNS	NNS	NNS .	NNS
Nitrate/Nitrite (as Total N)		NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Nitrobenzene	98-95-3	1300	85 0	1300	2 50	1300	\$ 50	NNS	NNS
o-Nitrophenol	88- 75-5	NNS	NNS	NNS.	NNS	NNS	NNS	NNS	NNS
p-Nitrophenol	100-02-7	4100	3000	4100	3000	4100	3000	NNS	NNS
N-nitrosodimethylamine	62-75-9	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
N-nitrosodiphenylamine	86-30-6	2900	200	2900	200	2900	200	NNS	NNS
N-nitrosodi-n-propylamine	621-64-7	NNS	NNS .	NNS	NNS	NNS	NNS	NNS	NNS
Pentachlorophenol	87-8 6-5	ь	h .	h	h	h	h	h	h

Table 2.	Aquatic & W	iklife De	signated Us	e Numeri	c Water Q	nality Crite	ria		
PARAMETER	CAS! NUMBER	A&Wc Acute3 (µg/L)	A&Wc Chronic4 (µg/L)	A&Ww Acute3 (µg/L)	A&Ww Chronics (µg/L)	A&Wedw Acuse3 (µg/L)	A&Wedw Chronic4 (µg/L)	A&We Acute3 (µg/L)	A&We Chronic4 (µg/L)
Phenenthrene ,	85-01-8	30	6.3	30	6.3	54	6.3	NNS	NNS
Phenol	108-95-2	5100	730	7000	1000	7000	1000	180000	26000
Polychlorinatedbiphenyls (PCBs)	1336-36-3	20	0.01	2.0	0.02	2.0	0.02	11	2.5
Рутеле	129-00-0	NNS	NNS	NNS	NNS	NNS	NNS .	NNS	NNS
Selenium (as Se)	7782-49-2	20 T	2.0 T	20 T	2.0 T	50 T	2.0 T	33 T	20 T
Silver (as Ag)	7440-22-4	iD	NNS	iD	NNS	iD	NNS	iD	NNS
Styrene	100-42-5	NNS	NNS	NNS	NNS	NNS	NNS	NNS .	NNS
Sulfides		100	NNS	100	NNS	100	NNS	100	NNS
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	1746-01-6	0.01	0.005	0.01	0.005	0.12	0.01	0.1	0.01
1,1,2,2-Tetrachloroethane	79-34-5	4700	3200	4700	3200	4700	3200	NNS .	NNS
Tetrachloroethylene	127-18-4	2600	280	6500	680	6500	680	15000	1600
Thailium (as TI)	7440-28-0	700 D	150 D	700 D	150 D	700 D	150 D	NNS	NNS
Toluene	108-88-3	\$ 700	180	870 0	180	8 700	180	NNS	NNS
Toxaphene	\$001-35-2	0.73	0.0002	0.73	0.02	0.73	0.02	11	1.5
1,2,4-Trichlorobenzene	120-82-1	750	130	1700	300	NNS	NNS	NNS	NNS
1,1,1-Trichloroethane	71-55-6	2600	1600	2600	1600	2600	1600	NNS	NNS
1,1,2-Trichloroethane	79-00-5	18000	12000	18000	12000	18000	12000	NNS	NNS
Trichloroethylene	79-01-6	20000	1300	20000	1300	20000	1300	NNS	NNS
2,4,6-Trichlorophenol	\$\$- 06-2	160	25	160	25	160	25	3000	460
2-(2,4,5-Trichlorophenoxy) proprionic acid (2,4,5-TP)	93-72-1	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Trihalomethanes, Total		NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Uranium (as Ur)	7440-61-1	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Vinyl chloride	75-01-4	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Xylenes (Total)	1330-20-7	NNS	NNS	NNS	NNS	NNS	NNS	NNS	NNS
Zinc (as Zn)	7440-66-6	jD	j D	jD	jD	jD	jD	jD	j D

Footnotes

- a The standard to protect this use is 7 million fibers (longer than 10 micrometers) per liter.
- b Values for ammonia are contained in separate tables located at the end of Appendix A.
- c Cadmium A&Wc acute standard: e(1.125 [in(Hardwas)] 3.825)
 - A&We chronic standard: e(0.7852 [le(Hardness)] 1.490)
 - A&Ww acute standard: e(1.128 (in(Hardness)) 20149)
 - A&Ww chronic standard: e^{(0.7832 [la(Hardness)] -3 490)}

- A&Wedw acute standard: e(1.128 [in(Hardness)] 2.0149)
- A&Wedw chronic standard: e^{(0.7852} (le(Hardness)] 3 490)
- A&We acute standard: e(1.128 [In(Hardness)] 0.9691)
- A&We chronic standard: e10.7852 [let(Herdness)] 3 490)
- (See Footnote 5)
- d Chromium III A&Wc acute standard: e(0.8190 [in(Hartness)] +3 688)
 - A&Wc-chronic standard; ef0.8190 [In(Hardness)] + 1 561) A&Ww acute standard: e(0.8190 [in(Hardness)] + 3 688)

e -Copper

Department of Environmental Quality - Water Quality Standards

A&Wedw acute standard: e^{(0.8190} [ln(Hardoon)] + 4.9341) A&Wedw chronic standard: e[0,8190 [ln(Hardness)] + 1.561) A&We acute standard: e(0.8190 (in(Hardson)) +3.685) A&We chronic standard: e(0.8190 [in(Hardson)] + 1.561) (See Footnote 5) A&Wc acute standard: e^{(0.9422 [in(Hardness)] - 1.464)} A&We chronic standard: e(0.8545 [la(Hardson)] - 1.465) A&Ww acute standard: e(0.9422 [ln(Hardman)] - 1.444) A&Ww chronic standard: e(0.8545 [In(Hardson)] - 1.465) A& Wedw acute standard: e^{(0.5472} [In(Hardwan)]: 1.464) A& Wedw chronic standard (e^{(0,8545} [la(Hardese)] - 1.465) A&We acute standard: e(0.9022 [M(Huraness)] - 1.1514) A&We chronic standard: e(0.8545 [in(Hardson)] - 1.1445) (See Foomote 5)

A&Ww chronic standard: e(0.8190 [lm(Hardness)]+1.561)

A&Wc acute standard: e[1.2730 [in(Hardness)] - 1.460) f-Lead A&We chronic standard: e(1.2730 [tn(Hardson)] -4.705) A&Ww acute standard: e(1.2730 [in(Hardsons)] - 1.440) A&Ww chronic standard: e[1,2750 [In(Hardson)] - 4,705) A&Wedw scute standard: e(1.2790 [In(Hardman)] - 1.460) A& Wedw chronic standard: e(1.2730 [in(Hardness)] -4.705) A&We acute standard: e(1.2730 [in(Hardness)] - 0.7131) A&We chronic standard: e(1,2730 [in(Herman)] - 3.9518) (See Footnote 5)

A&Wc acute standard: e^{(0,8460 (la(Hardness))} +3.3611) g - Nickel A&Wc chronic standard: e(0.8460 [In(Hardenss)] + 1,1644) A&Ww acute standard: e(0.8460 (in(Hardness)) + 3.3611) A&Ww chronic standard: e(0.8460 [in(Hardness)] + 1.1644)

A&Wedw scute standard: e(0.8460 [in(Hardans)]+3.3611) A&Wedw chronic standard: e(0.8440 [in(Hardman)]

A& We acute standard: e(0.8440 [in(Hardware)] + 4.4589) A&We chronic standard: e(0.8460 [in(Hardness)] + 2.2417) (See Footnote 5)

h - Pentachiorophenol A&Wc acute standard: e(1,005 (pH) - 4,830) A&Wc chronic standard: e(1,005 (pH) - 5,290) A&Ww acute standard: e(1.005 (pH) -4.830) A&Ww chronic standard: e(1.005 (pH) - 5.290) A&Wedw acute standard: e(1.005 (940 - 4.830) A&Wedw chronic standard: e(1.005 (pH) - 5.290) A& We acute standard: e(1,005 (sH) - 3,4304) A&We chronic standard: e(1.005 (eH) - 3.9006)

> (See Footnote 6) A&We acute standard: e(1.72 [in(Hardwest)] - 6.52) A&Ww acute standard: e(1.72 [in(Hardness)] - 6.52) A&Wedw acute standard: e(1.72 (in(Hardness)) - 6.52) A&We scute standard: e[1.72 [in(Hardson)] -6.52) (See Footnote 5)

no cho. mc?

j - Zinc A&Wc acute standard: e(0.8473 [la(Hardean)] + 0.860) A&We chronic standard: e(0.8473 [in(Hardness)] + 0.761) A&Ww acute standard: e(0.8473 [in(Hardness)] + 0.860) A&Ww chronic standard: e(0.9473 [la(Hardens)] + 0.761) A&Wedw scute standard: e(0.547) [in(Herines)] + 0.860) A&Wedw chronic standard: e(0.3473 [ln(Harmon)] +0.741) A&We acute standard: e(0.8473 [la(Hardoom)]+3.1342) A& We chronic standard: e(0.8473 [In(Hardens)] + 3.8484) (See Footnote 5)

k - The standard to protect this use is 0.003 ug/l aldrin/dieldrin.

Chemical Abstract System (CAS) number is a unique identification number given to each chemical.

2 - The numeric standards to protect this use shall not be exceeded.

3 - Determination of compliance with acute standards shall be as prescribed in R18-11-120.C.

4 - Determination of compliance with chronic standards shall be as prescribed in R18-11-120.C.

5 - Hardness, expressed as mg/L CaCO3, is inserted into the equation where it says "Hardness". Hardness is determined according to the following criteria:

If the receiving water body has an A&Wc or A&Ww designated use, then hardness is based on the bardness of the receiving water body from a sample taken at the same time that the sample for the metal is taken, except that the hardness may not exceed 400 mg/L CaCO₃.

b. If the receiving water body has an A&Wedw or A&We designated use, then the hardness is based on the hardness of the effluent from a sample taken at the same time that the sample for the metal is taken, except that the hardness may not exceed 400 mg/L CaCO₃.

6 - The pH is inserted into the equation where it says "pH". pH is determined according to the following criteria:

If the receiving water body has an A&Wc or A&Ww designated use, then pH is based on the pH of the receiving water body from a sample taken at the same time that the sample for pentachlorophenol is taken.

b. If the receiving water body has an A&Wedw or A&We designated use, then the pH is based on the pH of the effluent. from a sample taken at the same time that the sample for pentachlorophénol is taken.

ug/L -micrograms per liter NNS - No numeric standard.

D - Dissolved

T-Total recoverable

TTHM Indicates that the chemical is a tribalomethane. See Trihalomethanes, Total for DWS standard.

i - Silver

A&Wc - ACUTE

Total Ammonia mg-N/I (or mg NH3-N/liter)

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	Ten	perat	ure in	Degr	ees C	elsius	•										•				,	_	30	
pH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	25	and above	рН
6.5	29	28	28	27	27	27	27	26	26	26	25	25	25	25	25	24	24	24	24	24	24	16,6	11.8	6.5
6.6	28	27	27	27	26	26	26	25	25	25	25	24	24	24	24	24	24	23	23	23	23	16.2	11.4	6.6
6.7	27	27	26	26	26	25	25	25	24	24	24	24	23	23	23	23	23	23	23	22	22	15.6	11.1	6.7
6.8	26	25	25	25	24	24	24	24	23	23	23	23	23	22	22	22	22	22	22	22	21	15.0	10.6	6.8
6.9	25	24	24	24	23	23	23	22	2 2	22	22	22	21	21	21	21	21	21	21	21	20 /	14.3	10.1	6.9
7.0	23	23	22	22	22	22	21	21	21	21	20	20	20	20.0	19.9	19.7	19.6	19.5	19.4	19.3	19.2	13.4	9.5	7.0
7.1	22	21	21	21	20	20	19.9	19.6	19.5	19.3	19.1	18.9	18.8	18.6	18.5	16.4	18.3	18.2	18.1	18.0	17.9	12.5	8.9	7.1 .
7.2	19.8	19.6	19.2	19.0	18.8	18.5	18.4	18.1	17.9	17.8	17.6	17.5	17.3	17.2	17.0	16.9	16.8	16.7	16.7	16.5	16.5	11.6	8.2	7.2
7.3	18.0	17.8	17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.2	16.0	15.9	15.8	15.6	15.5	15.4	15.3	15.2	15.2	15.1	15.0	10.6	7.5	7.3
7.4	16.2	16.0	15.7	15.5	15.3	15.1	15.0	14.8	14.6	14.5	14.4	14.3	14.1	14.0	13.9	13.8	13.8	13.7	13.6	13.6	13.5	9.5	6.7	7.4
7.5	14.3	14.1	13.9	13.7	13.6	13.4	13.3	13.1	13.0	12.8	12.7	12.6	12.5	12.4	12.4	12.3	12.2	12.1	12.1	12.1	12.0	8.4	6.0	7.5
7.6	12.5	12.3	12.2	12.0	11.9	11.7	11.6	11.5	11.4	11.2	11.2	11.1	11.0	10.9	10.8	10.8	10.7	10.6	10.6	10.5	10.5	7.4	5.3	7.6
7.7	10.8	10.7	10.5	10.4	10.3	10,1	10.0	9.9	9.8	9.7	9.6	9.6	9.5	9.5	9.3	9.3	9.2	9.2	9.2	9.1	9.1	6.4	4.6	7.7
7.8	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.2	8.1	8.1	8.0	8.0	7.9	7.9	7.9	7.8	7.8	5.5	4.0	7.8
7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.9	6.8	5.8	6.7	6.7	6.7	6.7	6.6	6.6	4.7	3.4	7.9
8.0	6.5	6.4	6.4	6.3	6.2	6.1	6.1	6.0	5.9	5.9	5.8	5.8	5.8	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.5	4.0	2.9	8.0
8.1	5.2	5.1	5.1	5.0	4.9	4.9	4.8	4.8	4.8	4.7	4.7	4.6	4.6	4.6	4.6	4.5	4.5	4.9	4.5	4.5	4.5	3.2	2.3	8.1
8.2	4.2	4.1	4.0	4.0	4.0	3.9	3.9					3.7				3.6		3.6	3.6	3.6	3.6	2.6	1.89	8.2
8.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.1	1.55	8.3
8.4	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.4	2.4		_			2.4			2.3	23	2.3	2.4	2.4	1.71	1.27	8.4
8.5	2.1	2.1	2.1	2.0	2.0	2.0	1.98	1.96	1.95	1,94	1.93	1.92	1.91	1.90	1.90	1.90	1,90	1.90	1.90	1.91	1.92	1.41	1.05	8.5
8.6		_		1.63	1.61																		- 1	8.6
8.7				1.31																			- 1	8.7
-	1.08																							8.8
	0.87	-																						8.9
																							0.48	
7.0	4.70	J./U	V.03	V.03	V.03	V.00	J.30	V.00	V.50	J. 30	y.w	<u> </u>	J.J3		J./ J	5.70	4.71	4./4	J./ J		4.13	J.J3	<u> </u>	

NOTES

^{1.} pH and temperature are field measurements taken at the same time and location as the water samples destined for the laboratory analysis of ammonia.

^{2.} If field measured pH and/or temperature values fall between the A&We Acute Total Ammonia tabular values, round field measured values according to standard rounding procedures to nearest tabular value to determine ammonia standard.

A&Ww - ACUTE

Total Ammonia mg-N/liter (or mg NH3-N/liter)

		Ten	peratur	e in De	grees C	elsius			, , , , , , , , , , , , , , , , , , , ,	(00,100							
	рН	0	1	2	3	4	5	6 ·	7	8	. 9	10	11	12	13	14	рН
	6.5	29	28	28	27	27	27	27	26	26	26	25	25	25	25	25	6.5
	6.6	28	27	27	27	26	26	26	25	25	25	25	25	24	24	24	6.6
	6.7	27	27	26	26	26	25	25	25	24	24	24	24	23	23	23	6.7
	6.8	26	25	25	25	24	24	24	24	23	23	23	23	23 ~	22	22	6.8
	6.9	25	24	24	24	23	23	23	22	22	22	22	22	21	21	21	6.9
	7.0	23	23	22 -	22	22	22	21	21	21	21	20	20	20	20	20	7.0
	7.1	22	-21	21	21	20	20	20	20	19.5	19.3	19.1	18.9	18.8	18.6	18.5	7.1
	7.2	20	20	19.2	19.0	18.8	18.5	18.4	18.1	17.9	17.8	17.6	17.5	17.3	17.2	17.0	7.2
	7.3	18.0	17.8	17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.2	16.0	15.9	15.8	15.6	15.5	7.3
	7.4	15.2	16.0	15.7	15.5	15.3	15.1	15.0	14.8	14.7	14.5	14,4	14.3	14.1	14.0	13.9	7.4
	7.5	14.3	14.1	13.9	13.7	13.6	13,4	13.3	13.1	13.0	12.8	12.7	12.6	12.5	12.4	12.4	7.5
	7.6	12.5	12.3	12.2	12.0	11.9	11.7	11.6	11.5	11.4	11.3	11.2	11.1	11.0	10.9	10.8	7.6
	7.7	10.8	10.7	10.5	10.4	10.3	10.1	10.0	9.9	9.8	9.7	9.6	9.6	9.5	9.5	9.3	7.7
	7.8	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.2	8.1	8.1	8.0	7.5
	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.9	6.8	6.8	7.9
	8.0	6.5	6.4	6.4	6.3	6.2	6.1	6.1	6.0	5.9	5.9	5.5	5.8	5.8	5.7	5.7	8.0
	8.1	5.2	5.1	5.1	5.0	4.9	4.9	4.8	4.8	4.8	4.7	4.7	4.5	4.6	4.6	4.6	8.1
	8.2	4.2	4.1	4.0	4.0	4.0	3.9	3.9	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.5	8.2
	8.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	2.9	2.9	8.3
	8.4	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	8.4
,	8.5	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.95	1.94	1.93	1.92	1.91	1.90	1.90	8.5
-	8.6	1.68	1.66	1.65	1.63	1.61	1.60	1.59	1.58	1.57	1.56	1.55	1.55	1.54	1.54	1.54	8.6
1	6.7	1.35	1.33	1.32	1.31	1.30	1.29	1.28	1.27	1.26	1.26	1.25	1.25	1.25	1.25	1.25	8.7
	6.8	1.08	1.07	1.06	1.05	1.04	1.04	1.03	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.02	8.8
1	8.9	0.87	0.86	0.86	0.85	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84	8.9
	9.0	0.70	0.70	0.69	0.69	0.69	88.0	88.0	88.0	0.68	0.68	0.68	0.68	0.69	0.69	0.70	9.0

NOTES:

pH and temperature are field measurements taken at the same time and location as the water samples destined for the laboratory analysis
of ammonia.

If field measured pH and/or temperature values fall between the A&Ww Acute Total Ammonia tabular values, round field measured values
according to standard scientific rounding procedures to nearest tabular value to determine the ammonia standard.

A&WW - ACUTE

Total Ammonia mg-N/liter (or mg NH3-N/liter) (cont.)

	Ter	nperati	ure in D	egrees				S. Ante	(01 119) MNS4	witter) ((CONIC.)					ł
рН	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 and above	рH
6.5	24	24	. 24	24	24	24	24	24	24	24	23	22	20	19.1	17.8	16.6	6.5
6.6	24	24	23	23	23	23	23	23	23	23	23	21	20	18.5	17.3	16.1	6.6
6.7	23	23	23	23	22	22	22	22	2 2	22	22	21	19.2	17.9	16.7	15.6	6.7
6.8	22	22	22	22	2 2	2 1	21	21	21	21	21	20	18.4	17.2	16.1	15.0	6.8
6.9	21	21	21	21	21	20	20	20	20	20	20	18.8	17.5	16.4	15.3	14.3	6.9
7.0	20	20	20	19.4	19.3	19.2	19.2	19.1	19.1	19.0	19.0	17,7	16.5	15.4	14.4	13.4	7.0
7.1	18.4	18.3	18.2	18.1	18.0	17.9	17.9	17.8	17.8	17.7	17.7	16.5	15.4	14.4	13.4	12.6	7.1
72	16.9	16.8	16.7	16.7	16.6	16.5	16.5	16.4	16.4	16.4	16.3	15.2	14.2	13.3	12.4	11.6	7.2
7.3	15.4	15.3	15.2	15.2	15.1	15.0	15.0	15.0	14.9	14.9	14.9	13.9	12.9	12.0	11.3	10.5	7.3
7.4	13.8	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.4	13.4	13,4	12.5	11.6	10.9	10.2	9.5	7.4
7.5	12.3	12.2	12.2	12.1	12.1	12.0	12.0	12.0	11.9	11.9	11.9	11.1	10.4	9.7	9.1	8.5	7.5
7.6	10.8	10.7	10.6	10.6	10.5	10.5	10.5	10.4	10.4	10.4	10.5	8.9	9.1	8.5	8.0	7.4	7.6
7.7	9.3	9.2	9.2	9.2	9.1	9.1	9.1	9.1	9.1	9.1	.9.1	8.5	7.9	7.4	6.9	6.5	7.7
7.8	8.0	7.9	7.9	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.3	6.8	6.4	6.0	5.6	7.8
7.9	6.7	6.7	6.7	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.2	5.8	5.4	5.1	4.8	7.9
8.0	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.6	5.6	5.2	4.9	4.6	4.3	4.0	8.0
8.1	4.5	4.5	4.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.0	3.7	3.5	3.3	8.1
8.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.4	3.2	3.0	2.8	2.7	8.2
8.3	2.9	2.9	2.9	29	29	2.9	2.9	2.9	2.9	2.9	3.0	2.8	2.5	2.5	2.3	2.2	8.3
8.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.1	2.0	1.90	1.80	8.4
8.5	1.90	1.90	1.90	1.90	1.91	1.92	1.92	1.93	1.95	1.96	1.99	1.86	1.77	1.66	1.57	1.49	8.5
8.6	. 1.54	1.54	1.55	1.55	1.56	1.57	1.58	1.58	1.60	1.62	1.63	1.55	1.46	1.38	1.31	1.24	8.6
8.7	1.25	1.26	1.26	1.27	1.28	1.29	1.30	1.31	1.33	1.34	1,36	1.29	1.22	1.16	1.10	1.05	8.7
8.8	1.03	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.11	1.12	1.14	1.09	1.03	88.0	0.94	0.90	8.8
8.9	0.85	0.85	0.86	0.87	0.85	0.89	0.91	0.92	0.93	0.95	0.97	0.93	88.0	0.84	0.81	0.77	8.9
9.0	0.70	0.71	0.72	0.73	0.74	0.75	0.77	0.78	0.80	0.81	0.83	0.80	0.76	0.73	0.70	0.68	9.0

NOTES:

Historical Note

Appendix A, Table 2 adopted effective April 24, 1996 (Supp. 96-2).

pH and temperature are field measurements taken at the same time and location as the water samples destined for the laboratory analysis
of ammonia.

^{2.} If field measured pH and/or temperature values fall between the A&Ww Acute Total Ammonia tabular values, round field measured values according to standard scientific rounding procedures to nearest tabular value to determine the ammonia standard.

APPENDIX B. List of Surface Waters and Designated Uses Abbreviations

River Basins

(Correspon	id to Sta	te Water Quality Assessment Report)			
BW	=	Bill Williams	Designated L	ises	
CM		Colorado Mainstem (includes Red Lake)	A&Wc	· 🕳	Aquetic & Wildlife coldwater
LC	=	Little Colorado	A&Ww	-	Aquatic & Wildlife warmwater
MG	-	Middle Gils (includes Gils River below	A&We	=	Aquetic & Wildlife enhemeral
		San Carlos Indian Reservation, Salt River below Granite Reef Dam and Phoenix area	A&Woo	twee	Aquatic & Wildlife effluent dependent water
		waterbodies)	FBC	-	Full Body Contact
RM	•	Rios de Mexico (includes Rio Magdalena,	PBC	=	Partial Body Contact
		Rio Sonoita, and Rio Yaqui Basins)	DWS	-	Domestic Water Source
SC	-	Santa Cruz	FC.	-	Fish Consumption
SP	=	San Pedro	Agi	-	Agricultural Irrigation
SR	#	Salt River (includes Salt River and	Agl	=	Agricultural Livestock Watering
	• •	tributaries above Granite Reef Dam)	Other		•
UG .	-	Upper Gila (includes Gila River and	บ	**	Waterbody designated as Unique Water
		tributaries above San Carlos Indian	EDW	=	Effluent Dependent Water
		Reservation)	WWTP	=	Wastewater Treatment Plant
V R	=	Verde River	km	=	Kilometers
WP	=	Wilcox Playa			•

BASEN	SEGMENT	LOCATION	,		DESIGNATE	D USES				
BW	Alamo Lake	34*14'45*/113*35'00"	A&Ww	T	FI	С		FC		Agi
BW	Big Sandy River	Aquarius & Hualapai Mountains	A&Ww		FE	С		FC		AgL
BW	Bill Williams River	Buckskin & Rawhide Mountains	A&Ww		FE	С		FC		Agi
BW	Blue Tank	34*40*14*/112*58*16*	A&Ww		FE	С		FC		Agl
BW	Boulder Creek	Tributary to Burro Creek	A&Ww		FE	С		FC	Agi	AgL
BW	Burro Creek (U)	Above confluence with Boulder Creek	A&Ww		FE	С		FC		AgL
BW	Burro Creck	Below confluence with Boulder Creek	A&Ww		FE	С		FC		AgL
BW	Conger Creek	Tributary to Burro Creek	A&Ww		FE	С		FC		AgL
BW	Coors Lake	34°36'20°/113°11'25°	AŁWw		FE	С	T	FC		
BW	Copper Basin Wash	Headwaters to bottom of perennial reach	A&Ww		FE	c		FC		Agl
BW	Copper Basin Wash	Bottom of perennial reach/ Skull Valley Wash		A&Wc		PB				Agi
BW	Cattonwood Carryon	Tributary to the Santa Maria River	A&Ww		FE	С		FC	·	Agi
BW	Date Creek	Tributary to the Santa Maria River	AŁWw		FE	С		FC		Agi
BW	Francis Creek (U)	Tributary to Burro Creek	A&Ww		FB	С	DWS	FC	Agi	Agi
BW	Kirkland Creek	Tributary to Senta Maria River	AŁWw		FE	С		FC	Agi	Agl
BW	Knight Creek	East of Huslapai Mountains	A&Ww	•	FE	С	1	FC		Agl

BASIN	SEGMENT	LOCATION	1			DESIGN	ATED	USES				
BW	Peeple's Canyon Creck (U)	Tributary to Santa Maria River		A&Ww			FBC			FC		AgL
BW	Santa Maria River	Tributary to Alamo Lake		ARWW	†	1	FBC			FC	Agi	Agl
BW	Trout Creek	Tributary to Big Sandy Rive		ARWW		1	FBC		1	FC	-	Agi
СМ	A-10 Backwater	33"31"38"/114"33"19"		ARWW			FBC		1	FC		
CM	A-7 Backwater	33*34*39*/114*39*42*		A&Ww			FBC		1	FC		-
СМ	Adobe Lake	33°02'39"/114"39'19"		ARWW			FBC		1	FC		-
СМ	Agate Creck	Grand Canyon	A&Wc				FBC			FC	 	
СМ	Big Springs Tank	36"36"10"/112"20"58"	A&Wc				FBC			FC		Agl
СМ	Boucher Creek	Grand Canyon	A&Wc				FBC			FC		
СМ	Bright Angel Creek	Grand Canyon	A&Wc				FBC			FC		
СМ	Bright Angel Wash (EDW)	South Rim WWTP outfall to Coconino Wash				A&Wedw	·	PBC				AgL
СМ	Bull Rush Canyon Wash	Tributary to Kanab Creek			A&We			PBC				
СМ	Cataract Creek	Headwaters to Senta Fe Reservoir	A&Wc	·			FBC		DWS	FC	Agi	Agi
СМ	Cataract Creek	Santa Fe Reservoir to Williams WWTP outfall		A&Ww	•		FBC			FC	Agl	Agi
СМ	Cataract Creek (EDW)	Williams WWTP outfall to 1 km downstream				A&Wedw		PBC				
СМ	Cataract Creek	Below 1 km downstream of Williams WWTP outfall to confluence of Red Lake Wash		A&Ww		·	FBC			FC .	-	AgL
СМ	Cataract Creek	Red Lake Wash to Havasupai Reservation			¹ ⊉ We			PBC				AgL
СМ	Cataract Lake	35°15'05"/112°12'58°	A&Wc				FBC		DWS	FC		Agi
СМ	Chuar Creek	Grand Carryon	A&Wc				FBC			FC		
СМ	Cibola Lake	33°14′20″/114°40′16″		A&Ww			FBC			FC		
СМ	City Réservoir	35*13*57*/112*1123*	A&W c				FBC	2	DWS	FC		
СМ	Clear Creek	North rim, Grand Canyon	A&W c				FBC			FC	_	
СМ	Clear Lake	33*01'57*/114*31'26"		A&Ww			FBC		·	FC		
СМ	Colorado River	Lake Powell to Topock	A&Wc				FBC		DWS	FC	Agi	AgL
СМ	Colorado River	Topock to Imperial Dam		ARWW			FBC		DWS	FC	Agi	AgL
CM	Colorado River	Imperial Dam to Mexico		A&Ww			FBC		•	FC	Agl	AgL
СМ	Cottonwood Creek	Tributary to Tuxton Wash		A&Ww			FBC			FC		AgL
СМ	Crystal Creck	North rim, Grand Canyon	A& Wc				FBC			FC		
⊒M.	Deer Creek	Grand Canyon	A&Wc			·	FBC			FC		

BASEN	SEGMENT	LOCATION				DESIGN	ATED	USES				
СМ	Detrital Wash	Tributary to Lake Mead			ARWe			PBC				
СМ	Dogtown Reservoir	35°12'40°/112°07'46°	ARWo				FBC		DWS	FC	Agl	Agl
СМ	Dragon Creek	North rim, Grand Canyon	,	ARWW			FBC			FC		
CM	Gerden Creek	Grand Canyon	A&Wc				FBC			FC		
СМ	Gonzalez Lake	35*15'26'/112*12'07*	ARWo				FBC			FC	Agi	AEL
СМ	Grand Wash	Tributary to Lake Mead			ARWe			PBC				
СМ	Grapevine Creek	Grand Carryon	ARWC				FBC			FC		
CM	Grapevine Wash	Tributary to Lake Mead			A&We	_		PBC			:	
СМ	Hakatai Creek	Grand Canyon	A&Wc				FBC			FC		
СМ	Hance Creek	Grand Canyon	A&Wc				FBC			FC		
СМ	Hermit Creek	Grand Canyon	A&Wc				FBC			FC		
СМ	Holy Moses Wash (EDW)	Kingman WWTP outfail to 3 km downstream				A&Wedw		PBC				
CM	Horn Creek	Grend Casyon	A&Wc		·		FBC			FC		
СМ	Husispai Wash	Tributary to the Colorado River			A&We			PBC				
СМ	Hunter's Hole Backwater	32°31'15"/114°48'03"		ARWw		·	FBC			FC		AgL
CM	Imperial Reservoir	32*53*04*/114*27*40*		ARWw		-	FBC		DWS	FC	Agi	AgL
СМ	Island Lake	33*01'52*/114*35'07*		A&Ww			FBC			FC		
СМ	Jacob Lake	36*42*26*/112*13'48*		A&Ww			FBC		·	FC		
CM	Kaibab Lake	35*17*04*/112*09*17*	A& Wc				FBC		DWS	FC	Agi	Agi
CM	Kanab Creek	Kanab Plateau; northwestern Arizona		A&Ww			FBC	·	DWS	FC	2.5	Agl
СМ	Kwagunt Creek	Grand Canyon	A&₩c				FBC			FC	aga e sessi	
CM	Laguna Reservoir	32*51*15*/114*28*38*		AŁWw			FBC'		DWS	FC	Agi.	AgL
СМ	Lake Havasu	34*18*15*/114*08*15*		A&Ww			FBC		DWS	FC	Agi	AgL
СМ	Lake Mead	36°01'00"/114°44'15"	A& Wc				FBC		DWS	FC	Agi	Agi
CM	Lake Mohave	35°11'45"/114°34'00"	A& Wc				FBC		DWS	FC	Agi	Agi
СМ	Lake Powell	36°57'00"/111°29'15"	A& ₩c				FBC	·	DWS	FC	Apl	AgL
СМ	Lonetree Canyon Creek	Grazid Carryon		ARWw			FBC			FC		
СМ	Martinez Lake	32°58'52"/114°28'23"		A&Ww	·		FBC			FC	AgI	Agi
СМ	Matkatamibe Creek	Grand Canyon, South Rim	A& ₩c		·		FBC			FC		
СМ	Mistry Lake	32°49′11″/114°27′41°		A&Ww			FBC			FC		
СМ	Mohave Wash	Tributary to Lake Havasu			A&We	,		PBC				
СМ	Monument Creek	Grand Canyon		A&Ww			FBC			FC		

BASEN	SEGMENT	LOCATION				DESIGN	ATED	USES			
СМ	Nankoweap Creek	Grand Carryon	A&Wc			T	FBC	T		FC	
СМ	National Canyon Creek	South rim, Grand Canyon	A&Wc		-	<u> </u>	FBC			FC	
СМ	North Canyon Creek	Grand Canyon	ARWC	 			FBC			FC	
СМ.	Nortons Lake	33*02'35"/114"37'58"	 	ARWW			FBC			FC	
СМ	Olo Creek	South rim, Grand Canyon		ARWW			FBC			FC	
СМ	Paria River	Peria Plateau, Northern AZ Border	A&Wc				FBC	·		FC	
СМ	Plantom Creek	North rim, Grand Canyon	A&Wc				·FBC			FC	
СМ	Pipe Creek	Grand Carryon	A&Wc				FBC			FC	
СМ	Pretty Water Lake	33*19'45"/114*42'15"		ARWW			FBC			FC	
СМ	Quigley Ponds	32*43'00"/113*58'00"		A&Ww			FBC			FC	
СМ	Red Carryon Creek	Grand Canyon		A&Ww			FBC			FC	
СМ	Red Lake	35"40"00"/114"03'45"		A&Ww			FBC			FC	Agi
СМ	Redondo Laice	32*44*32*/114*29*02*		A&Ww			FBC			FC	
СМ	Rouring Springs	Headwaters of Roaring Springs Creek	A&Wc				FBC		DWS	FC	
СМ	Roaring Springs Creek	Grand Carryon	A&Wc		,		FBC			FC	
СМ	Rock Canyon	Tributary to Truston Wash			A&We			PBC			
СМ	Royal Arch Creek	Grand Canyon	A&Wc				FBC			FC	
СМ	Ruby Creek	Grand Canyon	A&Wc				FBC			FC	
СМ	Russell Tank	34*52*22*/111*52*44*	A&Wc			,	FBC			FC	Agi
СМ	Sacramento Wash	Tributary to Topock Marsh			A&We			PBC			
СМ	Saddle Canyon Creek	West rim, Marble Canyon	A&Wc			•	FBC			FC	
СМ	Santa Fe Reservoir	35"!4"26"/112"11"04"	A&Wc				FBC		DWS	FC	
СМ	Sapphire Creek	Grand Carryon	A&Wc				FBC			FC	
СМ	Sawmill Canyon	Headwaters to abandoned gaging station		A&Ww			FBC			FC	Agi
СМ	Sewmill Wash	Below abandoned gaging station			A&We			PBC			Agi
СМ	Serpentine Creek	Grand Canyon	A&Wc			·	FBC			FC	
СМ	Shinumo Creek	North rim, Grand Carryon	A&Wc		<u>.</u>		FBC			FC	
СМ	Short Creek	Tributary to the Virgin River			A&Wc			PBC			
СМ	Slate Creek	Grand Canyon	A&Wc				FBC			FC	
СМ	Spring Canyon Creek	Grand Carryon	A&Wc				FBC	·		FC	
СМ	Stone Creek	Grand Carryon	A&Wc				FBC			FC	

BASIN	SEGMENT	LOCATION	DESIGNATED USES										
СМ	Tapeats Creek	North rim, Grand Caryon	A&Wc	<u> </u>	Γ		FBC			FC			
СМ	Thunder River	Tributary to Tapeats Creek	A&Wc	 			FBC			FC			
СМ	Topock Marsh	34947309/114931909		ARWW			FBC		DWS	FC	Agi	AgL	
СМ	Trail Canyon Creck	Grand Cattyon	ARWC	1			FBC			FC			
СМ	Transept Carryon (EDW)	North Rim WWTP outfall to 1 km downstream				A&Wedw		PBC					
СМ	Travertine Falls Creek	Grand Carryon	A&Wc				FBC		~	FC			
СМ	Tructon Wash	Tributary to Red Lake			A&We			PBC					
СМ	Turquoise Crek	Grand Canyon	A&Wc			~	FBC			FC	17.6		
СМ	Unkar Creek	North rim, Grand Canyon	A&Wc				FBC			FC			
СМ	Vascy's Paradisc	Grand Carryon	ARWc				FBC			FC			
СМ	Virgin River	NW of Virgin Mins; NW Arizona Border		A&Ww			FBC			FC	Agi	Agi	
СМ	Vishnu Creek	North rim, Grand Canyon	A&Wc				FBC			FC			
СМ	Warm Springs Creek	Grand Canyon		ARWW			FBC			FC			
СМ	Welkon Canal	Yuma Canal System							DWS		Agi	Agi	
СМ	Wellton Ponds			ARWW			FBC			FC			
СМ	West Cataract Creek	Tributary to Cataract Lake	A⊉ ₩c				FBC			FC		Agi	
СМ	White Creek	Grand Carryon		A&Ww			FBC			FC			
CNI	Wis Manua Park Lake	In Kingman		ARWw			FBC			FC	•		
СМ	Wright Canyon Creek	Tributary to Truxton Wash		A&Ww			FBC			FC	·	Agl	
СМ	YPG Pond	32*50*22*/114*26*25*		AŁWw			FBC			FC			
СМ	Yuma Area Canais	Above municipal water treatment plant intakes							DWS		Agl	AgL	
СМ	Yuma Area Canals	Below municipal water treatment plant intakes and all drains		·	·						Agi	Agi.	
rc	Als Lake	35*02*17*/111*25*13*		A&Ww	·		FBC			FC	1. 1.4	Agi	
ıc	Ashurst Lake	35*01*10*/111*24*09*	A&Wc				FBC			FC	Agi	Agi	
ıc	Atchesoa Reservoir	34*00*00*/109*20*41*		AŁWw			FBC	·		FC	Agi	Agi	
ıc	Auger Creek	Tributary to Nutrioso Creek	A&Wc				FBC		 	FC		Agi	
	Barbershop Carryon Creek	Tributary to East Clear Creek	A&Wc				FBC			FC		Agl	
LC	Bear Carryon Creek	Tributary to Blue Ridge Reservoir	A&Wc				FBC			FC		Agl	
ıc	Bear Canyon Creek	Tributary to Willow Creek	A&Wc				FBC			FC		AgL	
ıc	Bear Canyon Lake	34*24*10*/111*00*09*	A&Wc				FBC			FC	Agl	Agl	

BASEN	SEGMENT	LOCATION				DESIGN	ATED	USES				
ıс	Becker Lake	34*09*16*/109*18*18*	A&Wc		1		FBC			FC		Agi
ıc	Billy Creek	Tributary to Show Low Creek	AÆWc				FBC			FC		Agl
ıc	Black Canyon Creek	Tributary to Chevelon Creek	A&Wc				FBC			FC	Agi	ALL
ıc	Black Canyon Lake	34*19'50"/110*41'59"	A&Wc				FBC		DWS	FC	Agi	AgL
rc	Blue Ridge Reservoir	34°33'15"/111"11'01"	A&Wc	·		•	FBC			FC	Agi	AgL
ಜ	Boot Lake	34°58°53"/111°20'00"		A&Ww			FBC			FC		AgL
ឧ	Buck Springs Canyon Creek	Tributary to Leonard Canyon Creck	A& Wc				FBC			FC		AgL
8	Bunch Reservoir	34*02'12"/109*26'45"	A&Wc	·			FBC			FC	Agi	AgL
2	Camillo Tank	34°5503"/111°22'41"		A&Ww			FBC			FC		AgL
ĸ	Carnero Lake	34°06'57"/109°31'39"	A&Wc				FBC			FC	14.	Agi
rc	Chevelon Canyon Lake	34*3039*/110*49*22*	A&Wc				FBC			FC	Agi	Agi
2	Chevelon Creek	Mogolioa Piateau	A&Wc				FBC			FC	Agi	Agi
rc	Chevelon Creek, West Fork	Tributary to Chevelon Creek	A&Wc		·		FBC			FC		Agi
rc	Chilson Tank	34°51'46"/111°22'52"		A&Ww			FBC		·	FC		AgL
IC.	Cholia Lake	34*56'00"/110*17'12"		A&Ww			FBC			FC		AgL
K	Clear Creek	Mogalion Plateau; east of Winslow	A&Wc				FBC		DWS	FC		AgL
ıc	Clear Creek Reservoir	34"58"10"/110"38"33"	A&Wc				FBC		DWS	FC	Agl	.Agl
ıc	Coconino Reservoir	35"00"16"/111"23"52"	A&Wc				FBC			3	Agi	AgL
LC	Colter Creek	Tributary to Nutrioso Creek	A&Wc				FBC			FC		AgL
N.	Colter Reservoir	33°56'40"/109"28'50"	A&Wc				FBC			FC		AgL
rc	Concho Creek	Tributary to Carrizo Wash		A&Ww			FBC			FC	ď	Agi
LC	Concho Lake	34°26'36"/109°37'40"	A&Wc				FBC			FC	Agi	AgL
ıc	Cow Lake	34°53'19"/111°18'49"		A&Ww			FBC			FC		Agl
ıc	Coyote Creek	Tributary to Upper Little Colorado	A&Wc				FBC			FC	Agi	AgL
rc	Crisis Lake (Snake Tank #2)	34°47'51"/111°17'01"		A&Ww			FBC			₽C	,	Agi
rc.	Dane Carryon Creek	Tributary to Barbershop Carryon Creek	A&Wc				FBC			FC		Agl
rc.	Daves Tank	34°44′23°/111°17′08°		A&Ww			FBC			FC		Agi
ıc	Deep Lake	35*03'30"/111*24'55"		A&Ww			FBC			FC		Agl
ıc	Dry Lake (EDW)	34°37′52°/110°23′40°				A&Wedw						
LC	Ducksnest Lake	34*59*15*/111*23*53*		A&Ww			FBC			FC		AgL

BASEN	SEGMENT	LOCATION	DESIGNATED USES											
ಬ	East Clear Creek	Tributary to Clear Creek Reservoir	A&Wc				FBC	T		FC	Ael	AgL		
ıc	Ellis Wiltbenk Reservoir	34*0525*/109*28*24*		ARWW			FBC	1		FC	Agi	AEL		
ıc	Fish Creek	Tributary to Little Colorado	ARWo				FBC	1		FC				
ıc	Fool's Hollow Lake	34°16′14″/110°04′15°	ARWC				FBC			PC		Agl		
ıc	General Springs Creek	Tributary to Blue Ridge Reservoir	A&Wc	·			FBC			FC		Agi		
ĸ	Geneva Reservoir ·	34*01'44*/109*31'44*		A&Ww			FBC			FC		AgL		
ĸ	Hall Creck	Tributary to White Mountain Reservoir	A&Wc				FBC			FC	Agi	Agl		
ĸ	Hart Canyon Creek	Tributary to Willow Creek	A&Wc				FBC			FC		Agi		
ĸ	Hay Lake	34*00*11*/109*25*55*		A&Ww			FBC			FC		AgL		
ĸ	Hog Wallow Lake	33*58'57"/109*25'38"		A&Ww			FBC			FC	Agi	AEL		
rc	Horse Lake	35°03′53°/111°27′51°		A&Ww			FBC			FC		Agl		
rc	Huffer Tank	34°27'45"/111°23'09"		A&Ww			FBC			FC		Agi		
ıc	Hulsey Creek	Tributary to Nutriose Creek	A&Wc				FBC			FC				
rc	Hulsey Lake	33°55'57"/109°09'33"	A&Wc				FBC			FC				
2	Indian Lake	35*00'38"/111"22"37"		A&Ww			FBC			PC		AgL		
rc	Jack's Carryon Creek	Tributary to the Little Colorado		A&Ww			FBC			FC	Agi	AgL		
ις	Jarvis Lake	33"58"59"/109"12"33"		ARWw		·	FBC			FC		Agi		
K	Kinnikinick Lake	34°53'52"/111°18'20"	A&Wc				FBC			FC		ARL		
ಬ	Knoll Lake	34"25"38"/111"05"10"	A& Wc				FBC			FC		Agl		
TC	Lake Humphreys (EDW)	35°11'51'\111"35'16"			٠	A&Wedw		PBC						
ıc	Lake Mary, Lower	35°06′22″/111°34′20″	A&Wc				FBC			FC		Agl		
ıc	Lake Mary, Upper	35*04'45*/111*31*56*	ALWo				FBC		DWS	FC		AEL		
ıc	Lake of the Woods	34°09'39"/109"58'45"	A&Wc				FBC			FC	Agi	AgL		
ıc.	Lee Valley Creck	Tributary to Colter Reservoir	A&Wc				FBC			FC		Agl		
ıc	Lee Valley Reservoir	33°56'30"/109°30'00"	A&Wc				FBC			FC	Agi	Agi		
IC	Leonard Canyon Creck	Tributary to East Clear Creek	A&Wc				FBC			FC		AEL		
	Leonard Canyon Creek, East Fork	Tributary to Leonard Canyon Creek	A&Wc				FBC	,		FC		Agl		
	Leonard Canyon Creek, Middle Fork	Tributary to Leonard Camyon, West Fork	A&Wc				FBC			FC		Agl		
		Tributary to Leonard Canyon, East Fork	A&Wc				FBC			FC		Agl		
دا	Lily Creek	Escudilla Mountain	A&Wc				FBC	·	,	FC		AZL		

NEAS	' SEGMENT	LOCATION	DESIGNATED USES										
ıc	Little Colorado River	Above Lyman Reservoir	A&Wc			1	FBC			FC	Agi	Agi	
ıc	Little Colorado River	Below Lyman Reservoir		ARWW			FBC		DWS	FC	Agi	AgL	
ĸ	Little Colorado River, East Fork	White Mountains	A&Wc				FBC			FC	Agi	AgL	
Υ.	Little Colorado River, South Fork	White Mountains	AÆWc				FBC			FC	Agi	Agl	
ıc	Little Colorado River, West Fork	Below Government Springs; White Mountains	A&₩c				FBC		0a	FC	Agi	Agl	
ĸ	Little Colorado Rv, West Fork (U)	Above Government Springs; White Mountains	A&Wc	·			FBC			FC			
ĸ	Little George Reservoir	34°00'37"/109°19'15"		A&Ww		~-	FBC			FC	Agi		
ĸ	Little Mormon Lake	34*17'00"/109*58'03"		A&Ww			FBC			FC	Agi	AgL	
2	Little Ortega Lake	34"22'45"/109"40'00"	A&Ww				FBC			FC			
rc	Long Lake, Lower	34°46′45°/111°12′00°	A&Wc				FBC			FC	Agi	AgL	
2	Long Lake, Upper	35*00'00"/111*21'00"		ARWW			FBC			FC		Agl	
ıc	Long Tom Tank	34*20'37*/110*49'20"	A&Wc				FBC			FC		AEL	
rc	Lower Wainut Canyon Lake (EDW)	35"12"04"/111"34"07"				A&Wedw		PBC					
ıc	Lyman Reservoir	34*21'30*/109*21'30*	A&Wc				FBC			FC	Agi	Agl	
ıc	Mamie Creek	Escudilla Mountain	A&Wc		•		FBC			FC	Agi	Agl	
ıc	Marshall Lake	35*0710*/111*32*01*	A&Wc				FBC			FC		AgL	
ıc	McKay Reservoir	Apache-Sitgreaves National Forest	A&Wc				FBC		٠	FC	Agi	AgL	
rc	Merritt Draw Creek	Tributary to Barbershop Carryon Creek	A&Wc		•		FBC			FC		Agl	
ıc	Mexican Hay Lake	34*01'57"/109*21'25"	A&Wc				FBC			FC	Agi	Agl	
ıc	Milk Creck	Tributary to Hulsey Creek	A&Wc				FBC			FC			
rc	Miller Carryon Creek	Tributary to East Clear Creck	A& Wc				FBC			FC		Agl	
ıc	Miller, Canyon Creek, East Fork	Tribuzery to Miller Canyon Creek	A&W c			-	FBC	•		FC		Agl	
ıc	Mineral Creek	Near Vernon, Sitgreaves National Forest	A&Wc				FBC			FC	Agi	Agl	
rc	Mormon Like	34°56'40"/111°27'10" .	A&Wc			•	FBC		DWS	FC	Agi	Agl	
ıc	Morton Lake	34°53'36"/111°17'39"	A&W c				FBC			FC		Agi	
IC	Mud Lake	34°5524"/111°21'18"		A&Ww			FBC			FC		Agl	
LC	Ned Lake (EDW)	32°17'18"/110"03'20"				A&Wedw		PBC					
ĸ	Nelson Reservoir	34°03'12"/109"11'18"	A&Wc				FBC			FC	Agl	Agi	
LC	Norton Reservoir	34*03'57"/109*31'21*	*	A&Ww		•	FBC		-	FC		Agl	

BASEN	SEGMENT	LOCATION	DESIGNATED USES										
ĸ	Nutrioso Creek	Tributary to the Little Colorado	A&Wc				FBC			FC	Agi	Agl	
22	Paddy Creck	Tributary to Nutrioso Creek	A&Wc	·			FBC			FC			
ıc	Phoenix Park Wash	Tributary to Dry Lake			A&We			PBC			·		
15	Pine Tank	34°46'49"/111°17'17"		ALWW			FBC			FC		Agi	
ĸ	Pintail Lake (EDW)	34°18'06"/110"01'17"				A&Wedw		PBC			٠		
ıc	Pool Corral Lake	33*58*16*/109*24*53*		ARWW			FBC		-	FC	Agi	AgL	
ĸ	Porter Creek	Tributary to Show Low Creek	A&Wc				FBC		ŕ	FC			
ıc	Potato Lake	34°27'44"/111°20'42"	A&Wc				FBC			FC		Agi	
ıc	Prett Lake	34*01'31*/109*04'16*	A&Wc				FBC			FC			
ĸ	Puerco River	Tributary to the Little Colorado		A&Ww	•		FBC		DWS	FC	Agi	Agl	
ıc	Rainbow Lake	34*09*03*/109*59*01*	ARWo				FBC			FC	Agi	Agl	
ıc	Reagan Reservoir	Apache-Sitgreaves National Forest		A&Ww			FBC		·	FC		AgL	
22	Rio de Flag (EDW)	Flagstaff WWTP outfall to the confluence with San Francisco Wash				A&Wedw		PBC					
ıc	River Reservoir	34*02*01*/109*26*07*	A&Wc				FBC			FC	Agi	AZI	
rc	Rogers Reservoir	33"58"30"/109"16"18"		A&Ww			FBC			FC		AEL	
ıc	Rudd Creek	Tributary to Nutrioso Creek	A&Wc				FBC	·	•	FC		Agi	
rc	Russel Reservoir	33*59*29*/109*20*00*		A&W w			FBC			FC	Agi	Agl	
rc	San Salvador Reservoir	33*58*51*/109*19*51*		A&Ww			FBC			FC	Ael	Agl	
ıc	Salt House Lake	33*57*06*/109*20*12*		A&Ww	·		FBC			FC		Agi	
ıc	Scott Reservoir	34*10'27"/109"57'27"	A&Wc		·		FBC			FC	Agi	AgL	
ıc	Show Low Creek	Tributary to Silver Creek	A&Wc				FBC			FC	Agi	AgL	
ıc	Show Low Lake	34*11725*/109*59*55*	A&Wc				FBC			FC	Agl	Agi	
ĸ	Silver Creek	Tributary to Little Colorado; near Holbrook	A& Wc				FBC			FC	Agi	Agi	
rc	Stade Reservoir	33°59'50"/109"20'00"		A&Ww		•	FBC			FC	Agi	AEL	
LC	Soldiers Annex Lake	34°4713°/111°13'48"	A&Wc				FBC			FC	Agi	AEL	
rc	Soldiers Lake	34*47'49*/110*13'59*	A&Wc				FBC			FC	Agi	AgL	
LC	Spaulding Tank	34°30′17°/111°02′03°		AŁWw			FBC			FC .		Agl	
ıc	Sponseller Lake	34*14'10"/109*50'42"	A&Wc				FBC			FC		Agi	
TC	Si Johns Reservoir (Little Reservoir)	34*29*14*/109*21*57*		AÈWw			FBC			FC	Agī	AgL	

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
ıc	Telephone Lake (EDW)	34°1735"/110°02'39"				A&Wedw		PBC		T		
ıc	Tremaine Lake	34°46′00″/111°14′10″	A&Wc				FBC			FC		AgL
ıc	Tunnel Reservoir	34*01'51*/109*26'32"	A&Wc				FBC			FC	Agi	Agi
ıc	Vail Lake	35*05'24*/111*30'42*	A&Wc			1	FBC			FC		Agl
ıc	Walaut Creek	Tributary to Billy Creek	A&Wc	·			FBC			FC	-	Agl
ıc	Water Canyon Creck	Tributary to the Little Colorado	A&Wc				FBC			FC		Agi
ಬ	Water Carryon Reservoir	34*00*15*/109*20*05*		ARWW			FBC			FC	AgI	AgL
2	Whale Lake	,35°12'32"/111"34'42"				A&Wedw	~	PBC				
ĸ	Whipple Lake	34°16'47"/109"58'28"		A&Ww			FBC			FC		AgL
rc	White Mountain Lake	34°21'54°/109°59'38"	A&Wc				FBC			FC	Agi	AEL
ъ	White Mountain Reservoir	34°00′15″/109″30′48″	A&Wc				FBC			FC	Agi	Agl
rc	Willow Creek	Tributary to East Clear Creek	A&Wc				FBC			FC		Agl
rc	Willow Springs Canyon Creek	Tributary to Chevelon Creek	A&Wc		·		FBC	·		FC		Agl
<u>.</u> عد	Willow Springs Lake	34"18"45"/110"52"34"	A&Wc				FBC			FC	Agi	Agi
rc	Woodland Reservoir	34*0736*/109*57'06*	A&Wc				FBC			FC	AgI	ASL
ıc	Woods Canyon Creek	Tributary to Chevelon Creek	A&Wc				FBC			FC		Agi
22	Woods Carryon Lake	34*20*05*/110*56*35*	A&Wc				FBC		DWS	FC	Agi	Agl
rc	Zuni River ·	Tributary to the Little Colorado		A&Ww			FBC			FC	Agi	AgL
LG	Columbus Wash	Tributary to the Gila River			A&Wc			PBC				
re	Gila River	Painted Rock Dam to the Colorado River		A&Ww			FBC			FC	Agi	AgL
rc	Painted Rock (Borrow Pit) Lake	33*05'00"/113*01'20"		A&Ww			FBC			FC	AgI	Agl
MG	Agua Fria River	Above confluence with tunnamed EDW wash receiving treated wastewater from the Prescott Valley WWTP outfail			A&We	·		PBC				Agl
MG	Agus Fris River (EDW)	Below confluence with unnamed wash receiving treated wastewater from the Prescott Valley WWTP outfall to State Route 169				A& Wedw		PBC				AgL
MG	Agua Fria River	State Route 169 to Lake Pleasant		A&Ww			FBC		DWS	FC	Agi	AgL
MG	Agua Fria River	Below Lake Pleasant to the El Mirage WWTP outfall			A&Wc			PBC				Agl

BASIR	SEGMENT	LOCATION			DESIGN	ATED	USES				
MG	Agua Fria River (EDW)	El Mirage WWTP outfall to 2 km downstream			ÁÆWedw		PBC				
MG	Agus Fris River	Below 2 km downstream of the El Mirage WWTP outfall to State Highway 85		AÆ₩c			PBC				
MG	Agus Fris River	Below State Highway \$5	AŁWw			FBC			FC		
MG	Alvord Park Lake	Municipal Park Lake; 35th Avenue & Baseline Road; Phoenix	A£Ww				PBC		FC		
MG	Amelope Creek	Tributary to Martinez Creek	A&Ww			FBC			FC	Agi	Agi
MG	Arlington Canal	Above Wilson Avenue	·		·						Agl
MG	Ash Creek	Tributary to the Agua Fria River	A&Ww			FBC		·	FC	Agi	Agl
MG	Beehive Tank	32*52'36"/111*02'19"	A&Ww			FBC			FC		AgL
MG	Big Bug Creek	Tributary to the Agua Fria River	. A&Ww			FBC			FC	Agi	Agi
MG	Black Cazyon Creck	Tributary to the Agua Fria River	A&Ww		·	FBC			FC	AgI	AgL
MG	Blind Indian Creek	Tributary to the Hassayampa River	A&Ww			FBC			FC	Agl	AgL
MG	Bousali Park Lake	Municipal Park Lake; 59th Avenue & Bethany Home Road; Phoenix	A&Ww	·			PBC		FC		
MG	Canal Park Lake	Municpal Park Lake; College Avenue & Curry Road; Tempe	A&Ww				PBC		FC		
MG	Cave Creck	Headwaters to the Cave Creek Dam	ALWw			FBC			FC		AgiL
MG	Cave Creek	Cave Creek Dem to the Arizona Canal		A&We			PBC			·	
MG	Centennial Wash	Tributary to the Gila River, west of Hassayampa		A&We			PBC				
MG	Centennial Wash Ponds	33*55*10"/113*23*05*	A&Ww			FBC			FC		Agi
MG	Chaparral Park Lake	Municipal Park Lake; Hayden Road & Chaparral Road, Scottsdale	A&Ww				PBC		FC	Agi	
MG	Cortez Park Lake	Municipal Park Lake; 35th Avenue & Dunlap, Glendale	A&Ww				PBC		FC	Agi	
MG	Desert Breeze Lake	Municipal Park Lake; Galaxy Drive, West Chandler	A&Ww				PBC		FC		
MG	Dobson Lake	Municipal Park Lake; Dobson Road & Los Lagos Vista Avenue, Mesa	A&Ww				PBC		FC		

BASEN	SEGMENT	LOCATION		-		DESIGN	ATED	USES		_		
MG	Eldorado Park Lake	Municipal Park Lake; Miller Road & Oak Street, Tempe		A&Ww				PBC		FC		
MG	Encanto Park Lake	Municipal Park Lake, 15th Avenue & Encanto Blvd., Phoenix		ARWW				PBC		FC	Agi	
MG	Galena Guich	Tributary to the Agua Fria River			A&We			PBC				Agl
MG	Gila River	Sen Carlos Indian Reservation to the Ashurst- Hayden Dam		A&Ww		·	FBC			FC	Agi	Agl
MG	Gila River	Ashurst-Hayden Dam to the Florence WWTP outfall			A&Wc			PBC				Agi
MG	Gila River (EDW)	Florence WWTP outfall to Felix Road				A&Wedw		PBC				
MG	Gila River	Felix Road to Gila River Indian Reservation			A&We			PBC				AgL
MG	Gila River (EDW)	Salt River to the Gillespie Dam				A&Wedw		PBC		FC	Agi	AgL
MG	Gila River	Gillespie Dam to Painted Rock Dam		A&Ww			FBC			FC	Agi	Agi
MG	Granada Park Lake	Municipal Park Lake; 6505 North 20th Street, Phoenix		A&Ww				PBC		FC		
MG	Groom Creek	Tributary to the Hassayumpa River	A&Wc				FBC		DWS	FC		
MG	Hank Raymond Lake	33°50'18"/112°16'07"		A&Ww			FBC			FC	Agi	AgL
MG	Hassayampa Lake	34"25"45"/112"25"29"	A&Wc				FBC		DWS	FC		
MG	Hassayampa River	Headwaters to & miles south of Wickenburg		A&Ww			FBC			FC	Agi	AgL
MG	Hassayampa River	8 miles south of Wickenburg to the Buckeye Irrigation Company Canal			A&We			PBC				Agl
MG	Hassayampa River	Buckeye Irrigation Company canal to the Gila River		A&Ww			FBC			FC		AgL
MG	Horsethief Lake	34*09'42"/112*17'56"	A&Wc			•	FBC		DWS	FC		Agl
MG	Indian Bend Wash	Scottsdale		A&Ww				PBC		FC		
MG	Indian Bend Wash Lakes	Municipal Park Lakes; Scottsdale		A&Ww				PBC		FC		
MG	Indian School Park Lake	Municipal Park Lake; Indian School Road & Hayden Road, Scottsdale		A&Ww		-		PBC		FC		
MG	Kiwanis Park Lake	Municipal Park Lake; 6000 South Mill Avenue, Tempe		A&Ww				PBC		FC	Agi	
MG	Lake Pleasant	33*51'15*/112*16'15*		A&Ww			FBC			FC	Agi	Agl

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BASS	SEGMENT	LOCATION				DESIGN	ATED	USES				
MG	Lion Carryon	Tributary to Weaver Creek		ARWW			FBC			FC		
MG	Little Ash Creek	Tributary to Ash Creek; Prescott National Forest		ARWW			FBC			FC		ÄgL
MG	Lyax Creck	Tributary to Lynx Lake		ARWW			FBC	•		FC	-	AgL
MG	Lynx Lake	34"31"08"/112"23"05"	A&Wc				FBC		DWS	FC	Agi	AgL
MG	Martinez Creek	Tributary to the Hassayampa River		ARWW			FBC			FC	Agi	AgL
MG	McKellips Park Lake	Municipal Park Lake; Miller Road & McKellips Road, Scottsdale	·	AŁWw	·	_		PBC	*	FC	Ael	
MG	Mineral Creek	Tributary to the Gila River		ARWW		}	FBC			FC	Ja 🕶 🗈	Agi
MG	Minneliaha Creek	Tributary to the Hassayampa River		A&Ww			FBC		·	FC		AgL
MG	New River	Headwaters to I-17		A&Ww			FBC			FC	Agi	Agl.
MG	New River	Below I-17			A&We			PBC				Agl
MG	Painted Rock Reservoir	33*04*15*/113*00*30*		A&Ww			FBC			FC	Agi	Agi
MG	Papago Park Ponds	Municipal Park Lake; Galvin Parkway, Phoenix		A&Ww		·		PBC		FC		
MG	Perry Mesa Tank	34*1.1*03*/112*01*59*		A&Ww			FBC			FC		AgL
MG	Phoenix Area Canals	Granite Reef Dam to all municipal WTP intakes							DWS		Agi	Agi
MG	Phoenix Area Canals	Below municipal WTP intakes and all other locations					:				Agi	AgL
MG	Picacho Reservoir	32*51'17"/[11*28'49*		A&Ww		·	FBC		·	FC	Agi	AgL
MG	Poland Creek	Tributary to the Agua Fria; Bradshaw Mus		A&Ww			FBC		•	FC		AgL
MG	Queen Creek	Headwaters to the Superior Mining Division discharge outfall		A&Ww				PBC	DWS	FC		AgL
MG	Queen Creek (EDW)	Superior Mining Division discharge outfall to confluence with Potts Carryon		-		A&Wedw	·	PBC				
MG	Queen Creek	Potts Canyon to El Camino Viejo Road		A&Ww	.•	·	FBC	٠		·FC		Agl.
MG	Queen Creek	Below El Camino Viejo Road			A&We	·	·	PBC				Agl
MG	Riverview Park Lake	Municipal Park Lake; Dobson Road & 8th Street, Mesa		A&Ww				PBC		FC		
MG	Roedrunner Park Lake	Municipal Park Lake; 36th Street & Cactus, Phoenix		A&Ww		·		PBC	-	FC		

BASIN	SEGMENT	LOCATION	1	•		DESIGN	ATED	USES				
MG	Salt River	Granite Reef Dam to 2 km downstream		A&Ww			FBC		DWS	FC	Agi	AgI
MG	Sycamore Creek	Tributary to the Agua Fria River	A&Wc				FBC			FC		Agi
MG	Turkey Creek	Tributary to Black Carryon Creek		A&Ww			FBC			FC	Agi	AgL
MG	Unnamed Wash (EDW)	Gila Bend WWTP outfall to the Gila River			·	A& Wedw		PBC				
MG	Unnamed Wash (EDW)	Luke Air Force Base WWTP outfall to the Agus Fria River	4			A&Wedw		PBC	•	1		
MG	Unnamed Wash (EDW)	Prescott Valley WWTP outfall to the Agua Fria River				A&Wedw	~	PBC				
MG	Unnamed Wash (EDW)	Queen Valley Sanitary District WWTP outfall to the confluence with Queen Creek				A&Wedw		PBC				
MG	Vista Del Camino Park North	Municipal Park Lake; 7700 East Roosevelt Street, Scottsdale		A& Ww				PBC		FC		
MG	Vista Del Camino Park South	Municipal Park Lake; 7700 East Roosevelt Street, Scottsdale	:	A&Ww				PBC		FC		
MG	Weaver Creek	Tributary to Martinez Creek		ARWW			FBC			FC		
RM	Abbot Canyon	Mule Mountains		ARWW			FBC		DWS	FC	Agi	AgL
RM	Ash Creek	Chiricahua Mountains	A&Wc				FBC			FC	Agi	AgL
RM	Blackwater Draw	San Bernardino Valley		A&Ww			FBC		DWS	FC	Agl	AZL
RM	Buck Canyon	Chiricahua Mountains		ARWW			FBC		DWS	FC	Agi	AEL
RM	California Gulch	South of Ruby		A&Ww			FBC			FC		Agi
RM	Dixie Canyon	Mule Mountains		A&Ww			FBC		DWS	FC	Agi	Agl
RM	Dry Canyon	Mule Mountains		A&Ww			FBC		DWS	FC	Agi	AgL
RM	Gadwell Canyon	Mule Mountains		A&Ww			FBC		DWS	FC	Agi	Agi
RM	Glance Creek	Mule Mountains		A&Ww			FBC		,	FC	Agi	Agl
RM	Gold Guich	Mule Mountains		A&Ww			FBC			FC	Agi	Agl
RM	Holden Canyon Creek	Coronado National Forest		A&Ww			FBC		-	FC		
RM	Johnson Canyon	Chiricahua Mountains		ARWW			FBC		DWS	FC	Agi	Agl
RM	Leslie Canyon Creek	Chiricahua Mountains		A&Ww			FBC		DWS	FC		Agl
RM	Mexican Canyon	Mule Mountains		A&Ww			FBC		DWS	FC	Agi	AgL
RM	Mule Guich	Headwaters to the Bisbee WWTP outfail		A&Ww				PBC		FC	Agi	Agi
RM	Male Guich (EDW)	Below the Bisbee WWTP outfall				A&Wedw		PBC				Agl

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
RM	Ruby Lakes	Near the town of Ruby		A&Ww			FBC			FC		Agi
RM	Rucker Canyon Creek	Chiricahua Mountains	ARWo				FBC		DWS	FC		Agi
RM	Rucker Carryon Lake	31°46′46°/109°18′30°	ARWC				FBC			FC		Agl
RM	Soto Canyon	Mule Mountains		A&Ww			FBC		DWS	FC	Agí	Agi
RM	Sycamore Canyon Creek	Coronado National Forest		ARWW			FBC			FC		AgL
RM	Unnamed Wash (EDW)	Bisbos-Douglas International Airport WWTP outfall to Whitewater Draw				A&Wedw		PBC			, , ,	
RM	Whitewater Draw	Sulpher Springs Valley	·	ARWW			FBC			FC	Agi `	Agi
sc	Municipal Park Lake; 12325 East Roger Road, Tucson	Urban Lake; Tucson		A&Ww				PBC		FC		
sc	Agus Caliente Wash	Headwaters to the Coronado National Forest boundary		A&Ww		·	FBC			FC		Agl
sc .	Agus Caliente Wash	Below Coronado National Forest boundary			A&We			PBC				Agl
sc	Aguirre Wash	Aguirre Valley			A&We			PBC				
sc	Alambre Wash	Tributary to Brawley Wash			A&Wc			PBC				
sc	Alamo Wash	Tributary to Rillito Creek	•		A&Wc			PBC				
sc	Alter Wash	Alter Valley			A&We			PBC				÷
sc	Alum Guich	Headwaters to TZ2S R16E Sec 19 CBB SW1/4		A&Ww			FBC			FC		Agi
sc	Alum Gulch	Below T22S R16E Sec 19 CBA SW1/4			A&We			PBC				Agl
sc	Arivaca Creek	Tributary to Arivaca Lake		A&Ww			FBC			FC		Agi
sc	- Arivaca Lake	31°31'50°/111°15'05"		A&Ww			FBC	Ć.		FC	Agi	Agi
sc	Atterbury Wash	Tributary to Pantano Wash			A&We			PBC			,	í
sc	Bear Grass Tank	31°33'01"/111°11'32"		A&Ww	·		FBC			FC		Agl
sc	Big Wash	Tributary to Cattada del Oro			A&We			PBC				
sc	Bog Hole Tank	31*2834*/110*37*07*		A&Ww			FBC			FC		Agl
sc	Brawley Wash	Avra Valley			A&We			PBC				
sc	Catada del Oro	Headwaters to Highway 89		A&Ww			FBC		DWS	FC	Agi	Agi
sc	Catada del Oro	Below Highway \$9			A&We			PBC				Agl
sc	Cienega Creek	Headwaters to Interstate 10		A&Ww		·	FBC			FC		Agi
sc	Cienega Creek (U)	Interstate 10 to Del Lago Dam		A&Ww			FBC			FC		AgL
sc	Cienega Creek	Below Del Lago Dam		ARWW			FBC			FC		Agi
sc	Devidson Camyon	Tributary to Cienega Creek			A&We			PBC				ÁgL

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
s c.	Empire Gulch	Headwaters to Empire Ranch Spring			A&Wc			PBC	-			
sc	Empire Guich	Below Empire Ranch Spring		ARWW			FBC			FC		AgL
sc	Flax Carryon	Tributary to Alum Canyon			A&We			PBC		1		Agl
sc	Gerdner Carryon Creek	Tributary to Cienega Creek		ARWW			FBC			FC		
sc	Greene Wash	Tributary to the Santa Cruz River		•	A&We			PBC				
sc	Harshaw Wash	Headwaters to T22S R16E Sec 15 DAC NW 1/4		A&Ww			FBC		~	FC	1	Agi
sc	Harshaw Wash	Below T22S R16E Sec 15 DAC NW 1/4			A&We			PBC				Agl
sc	Hit Tank	32°43'57"/111°03'18"		A&Ww			FBC			FC		AgL
s c	Huschuca Tank	31°21'11'/110°30'12"		A&Ww			FBC			FC		Agi
sc	Julian Wash	Tributary to the Santa Cruz River			A&We	•		PBC				
sc	Kennedy Lake	Municipal Park Lake; Mission Road & Ajo Road, Tucson	•	A&Ww				PBC		FC		
sc	Lakeside Lake	Municipal Park Lake; \$300 East Stella Road, Tucson		A&Ww				PBC		FC		
sc	Lemmon Carryon Creek	Tributary to Sabino Canyon Creek	A& Wc		·		FBC			FC		
sc	Los Robies Wash	Tributary to the Santa Cruz River			A&We			PBC				
sc	Madera Canyon Creek	Tributary to the Santa Cruz River	-	A&Ww			FBC			FC		Agl
sc	Nogales Wash	Tributary to Potrero Creek		A&Ww				PBC				
sc	Oak Tree Carryon	Tributary to Cienega Creek			A&We			PBC			·	
sc	Palisade Carryon Creek	Tributary to Sabino Canyon Creek	A&W c				FBC			FC		
sc	Paradise Lake	Near Arizona City		A&Ww			FBC			FC	Agi	·
sc	Pantano Wash	Tributary to Tanque Verde Creek	•		A&Wc			PBC				
sc	Parker Canyon Creek	Tributary to Parker Canyon Lake		A&Ww		•	FBC			FC		
sc	Parker Canyon Lake	31°25'35"/110°27'15"	A& Wc				FBC			FC	Agi	Agi
sc	Patagonia Lake	31*29*30*/110*52*00*	A& Wc				FBC		DWS	FC	Agi	AgL
c	Peta Blanca Lake	31"24"12"/111"05"04"	A& Wc				FBC			FC	Agi	Agl
ic	Potrero Creek	Headwaters to Interstate 19			A&We			PBC				AgL
c	Potrero Creck	Below Interstate 19		A&Ww			FBC			FC		AgL

BARIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
sc	Puertocito Wash	Tributary to Altar Wash			A&We			PBC				Π
sc	Redrock Carryon Creek	Tributary to Sonoita Creek		ALWW			FBC			FC		
sc	Rillito Creek	Tributary to the Senta Cruz River			A&We			PBC				AZL
sc	Romero Canyon Creek	Tributary to Calada del Oro	A&Wc				FBC			FC	1	
sc	Rose Canyon Creek	Tributary to Rose Canyon Lake		A&Ww			FBC			FC	<i>i</i>	
sc	Rose Canyon Lake	32*23*13*/110*42*38*	A&Wc			·	FBC			FC	Agi	AgL
s Ç	Sebino Cenyon Creck	Tributary to Tanque Verde Creek	A&Wc			_	FBC		DWS	FC	Agi	·
sc	Salero Ranch Tank	31°35'42"/110"53'22"		A&Ww			FBC			FC	-	Agi
sc	Santa Cruz River	Headwaters to the International Boundary		A&Ww			FBC			FC	Agi	Agl
s c	Santa Cruz River	International Boundary to the Nogales International WWTP outfall		A&Ww			FBC		DWS	FC	Agl	Agi
sc	Santa Cruz River (EDW)	Nogales International WWTP outfall to the Tubac Bridge				A&Wedw		PBC				AgL
sc	Santa Cruz River	The Tubec Bridge to Roger Rd WWTP outfall			A&Wc	·		PBC				AgL
sc	Santa Cruz River (EDW)	Roger Road WWTP outfall to Baumgartner Road				A&Wedw		PBC				
sc	Santa Cruz River (Wash)	Baumgartner Road to the Gila River Indian Reservation			A&We			PBC				AgL
SC	Santa Cruz River, West Branch	Tributary to the Santa Cruz River		·	A&We			PBC			-	Agl
sc	Santa Cruz River, N. Fork	Tributary to the Santa Cruz River			A&We			PBC				
sc	Santa Rosa Wash	Below Papago Indian Reservation			A&We			PBC				
sc	Soldier Lake	32°25'34"/110°44'41"	A&Wc	•			FBC			FC		Agl
sc	Socoita Creek	Headwaters to 1 km downstream of the State Route \$2 bridge			A&We			PBC				AgL
sc	Sonoita Creek	I lan downstream of the State Route \$2 bridge to the Town of Patagonia WWTP outfall		A&Ww	·		FBC			FC		Agl
sc	Sonoita Creek (EDW)	Town of Patagonia WWTP outfall to 750 feet downstream of outfall				A&Wedw		PBC		·		AgL

BASEN	SEGMENT	LOCATION		•		DESIGN	ATED	USES				
sc	Sonoita Creek	Below 750 feet downstream of Town of Patagonia WWTP outfall		A&Ww	·		FBC			FC	Agi	Agi
sc	Split Tank	31°28'15"/111°05'15"		ARWW			FBC			FC		Agi
SC	Sutherland Wash	Tributary to Callada del Oro			A&We			PBC				<u> </u>
sc	Sycamore Reservoir	32*20*57*/110*44*52*	A&Wc				FBC			FC		Agi
sc	Tanque Verde Creek	Headwaters to Westworth Road	·	A&Ww			FBC		۶.	FC		Agi
sc	Tanque Verde Creek	Below Wentworth Road	•		A&We			PBC			1 21	Agi
sc	The Lake Tank	32°54'14"/111°04'14"		A&Ww			FBC			FC		Agi
SC	Three R Canyon	Headwaters to bottom of perennial reach		A&Ww			FBC		·	FC		
sc	Three R Canyon	Bottom of perennial reach to Sonoits Creek		·	A&We			PBC			• 4 •	
sc	Tinaja Wash	Eastern footbills, Sierrita Mountains			A&Wc			PBC				Agi
sc	Unnamed Wash (EDW)	Oracle Sanitary District WWTP outfall to 5 km downstream			•	A&Wedw	·	PBC				
sc	Vekol Wash	Tributery to Sente Cruz Wash			A&We			PBC				
sc	Williams Ranch Tanks	31°55°15"/110°25'30"		A&Ww			FBC			FC		Agi
SP	Aravaipa Creek	Headwaters to Stowe Guich		A&Ww			FBC		DWS	FC		Agi
SP	Aravaipa Creek (U)	Stowe Guich to downstream boundary of Azavaipa Canyon Wilderness Area		A&Ww.		,	FBC		DWS	FC		Agl
SP	Aravaipa Creek	Below downstream boundary of Aravaipa Canyon Wilderness Area		A&W w			FBC		DWS	FC		Agl
SP	Babocomari Creek	Tributary to the San Pedro River		A&Ww	·		FBC			FC		Agl
SP	Bass Carryon Creek	Muleshoe Preserve		A&Ww			FBC			FC		
SP	Bass Canyon Tank	32*24*00*/110*13*00*		A&Ww			FBC			FC		Agi
SP	Blacktail Pond	Fort Huschuca Military Reservation		A&Ww			FBC			FC		
SP	Booger Creek	Tributary to Aravaipa Creek		A&Ww			FBC			FC		Agi
SP	Buchman Canyon Creek. (U)	Headwaters to approximately 9.8 miles downstream at 32°24'31.5" N 110°32'08" W		A&Ww			FBC			FC		Agi
SP	Buehman Canyon Creek	Below 32°24'31.5" N 110°32'08" W	,	A&Ww			FBC			FC		Agi

BASIN	SEGMENT	LOCATION			١.	DESIGN	ATED	USES				
SP	Bull Tank	32°31'15"/110°12'45"		ARWW	T		FBC			FC		Agi
SP	Carr Canyon Creck	Tributary to the San Pedro River	ARWc				FBC			FC		AgL
SP	Copper Creek	Headwaters to Prospect Carryon		A&Ww			FBC		•	FC		Agl
SP	Copper Creek	Below Prospect Carryon			A&We	·		PBC				Agi
SP	Deer Creek	Tributary to Aravaipa Creck		ALWW			FBC		~	FC		Agi
SP	East Gravel Pit Pond	Fort Hunchuca Military Reservation		A&Ww			FBC		·	FC		
SP	Fly Pond	Fort Huschnes Military Reservation		A&Ww			FBC			FC		
SP	Fourmile Creek	Tributary to Aravaipa Creek		ARWW			FBC			FC		Agl
SP	Garden Carryon Creek	Eastern Slope, Huachuca Mountains		A&Ww			FBC		DWS	FC	Agi	
SP	Golf Course Pond	Fort Huschuca Military Reservation		A&Ww	·	·	FBC			FC		
SP	Gravel Pix Pond	Fort Huachuca Military Reservation		A&Ww			FBC			FC		
SP	Hidden Pond	Fort Huachuca Military Reservation		A&₩w			FBC			FC		
SP	Horse Camp Creek	Tributary to Aravaipa Creek		A&Ww		-	FBC			FC		AgL
SP	Hot Springs Canyon Creek	Muleshoe Preserve		A& Ww		·	FBC			FC		AgL
SP	Lower Gerden Canyon Pond	Fort Huschuca Military Reservation		A&Ww			FBC			FC		
SP	Miller Carryon Creek	Eastern Slope, Huachuca Mountains	A&Wc		٠		FBC		DWS	FC		AgL
SP	Oak Grove Creek	Tributary to Turkey Creek; Aravaipa Basin		A&Ww			FBC			FC		Agi
SP	Officers Club Pond	Fort Huachuca Military Reservation		A&Ww			FBC		·	FC		
SP	Parsons Creck	Tributary to Aravaipa Creek		A&Ww			FBC			FC		AgL
SP	Ramsey Canyon Creek	Huachuca Mountains	A&Wc				FBC		DWS	FC	Agi	AgL
SP	Rattlesnake Cartyon	Tributary to Aravaipa Creek		AŁWw	<u>.</u> [FBC	·		FC		Agl
SP	Redfield Carryon Creek	Southwest slope, Galiuro Mountains		AŁWw	÷		FBC		,	FC		Agl
SP	San Pedro River	U.S./Mexico Border to Redington		A&Ww			FBC			FC	Agi	Agi
SP	San Pedro River	Redington to the Gila River		AEWw			FBC			FC		AgL
	Swamp Springs Canyon Creek	Muleshoe Preserve		A&Ww			FBC	-		FC		

BARIN	SEGMENT	LOCATION				Design	ATED	USES				
SP	Sycamore Pond I	Fort Huschoca Military Reservation		A&Ww			FBC			FC		
SP	Sycamore Pond II	Fort Huschuca Military Reservation		ARWW			FBC			FC		
SP	Turkey Creek	Tributary to Aravaipa Creek	·	ARWW			FBC			FC	Agi	AgL
SP	Unnamed Wash (EDW)	Mt. Lemmon WWTP outfall to 0.25 km downstream				A&Wedw		PBC			11	
SP	Virgus Creek	Tributary to Aravaipa Creek		A&Ww			FBC			FC		AgL
SP	Walnut Guich (EDW)	Tombstone WWTP outfall to the confinence of Tombstone Guich		,		A&Wedw		PBC				
SP	Woodcasters Pond	Fort Huschnes Military Reservation		A&Ww			FBC			FC		
SR	Ackre (Judge) Lake	33"37"00"/109"20"37"	A&Wc				FBC			FC	AgI	AgL
SR	Apache Lake	33°35'30"/111°20'30"	A&Wc				FBC		DWS	FC	Agi	AgL
SR	Barnhardt Creek	Tributary to Rye Creek; Mazatzal Wilderness		A&Ww			FBC			FC		AgL
SR	Basin Lake	33*55'00"/109*26'05"	A& Wc				FBC			FC		AEL
SR	Bear Creek	Tributary to the Black River	AÆWc				FBC			FC	Agi	Agl
SR	Bear Wallow Creck	Tributary to the Black River	A& Wc				FBC			FC	Aei	Agi
SR	Bear Wallow Creck, North Fork	Tributary to Bear Wallow Creek	A& Wc				FBC			FC		Agi
SR	Bear Wallow Creek, South Fork	Tributary to Bear Wallow Creek	A&Wc	,			FBC			FC		AgL
SR	Bezver Creek	Tributary to the Black River	A&₩c	•		·	FBC			FC	Agi	AgL
SR	Big Lake	33*52'45"/109*25'00"	A&Wc	_			FBC		DWS	FC	Agi	AgL
SR	Black River	Tributary to the Salt River	A&Wc	·			FBC		DWS	FC	Agi	Agi
SR	Black River, East Fork	Tributary to the Black River	A&Wc	·			FBC		DWS	FC	Agi	AgL
SR	Black River, N Fork of E Fork	Tributary to Black River, East Fork	A&Wc			•	FBC		DWS	FC	Agi	Agl
SR	Black River, West Fork	Tributary to the Black River	A& Wc				FBC		DWS	FC	Agi	Agl
SR	Bloody Tanks Wash	Headwaters to Schultze Ranch			AÆ₩e	•		PBC				AgL
SR	Bloody Tanks Wash	Schultze Ranch to Miami Wash			A& We			PBC				
SR	Boggy Creek	Tributary to the Black River	A&Wc				FBC			FC	Agi	ABL
SR	Boneyard Creek	Tributary to Black River, East Fork	A&Wc				FBC			FC	Agi	Agl
SR	Boulder Creek	Tributary to LaBarge Creek		A&Ww			FBC		``	FC		
SR	Campaign Creek	Tributary to Roosevelt Lake		A&Ww			FBC			FC		AgL

BASEN	SEGMENT	LOCATION				DESIGN	ATED (ISES				·
SR	Canyon Creek	Tributary to the Salt River	A&Wc	T		T	FBC		DWS	FC	Agi	AgL
SR	Canyon Lake	33°33'15"/111°26'30"	ALWC				FBC			FC	Agi	AgL
SR	Centerfire Creek	Tributary to the Black River	ARWc				FBC			FC	Agi	Agi
SR	Chambers Draw Creek	Tributary to Black River, N Fork of E Fork	ARWo				FBC			FC		AgL.
SR	Cherry Creek	Tributary to the Salt River	ARWC				FBC			FC.	Agi	AgL
SR	Christopher Creek	Tributary to Tonto Creek	ARWC				FBC		٠.	FC	Agi	AgL
SR	Cold Spring Canyon Creek	Tributary to Cherry Creek	ALWo				FBC			FC		
SR	Conklin Creek	Tributary to the Black River	A&Wc				FBC			FC	Agi	AgL
SR	Coon Creck	Salt River Canyon Wilderness Area	A&Wc				FBC			FC		Agl
SR	Corduroy Creek	Tributary to Fish Creek, Apache National Forest	A&Wc				FBC			FC	Agi	Agl
SR	Coyote Creck	Tributary to the Black River, East Fork	AÆWc				FBC			FC	Agi	Agl
SR	Crescent Lake	33*5436*/109*25*08*	A&Wc				FBC			FC	Agi	AgL
SR	Deer Creek	Tributary to the Black River, East Fork	A&Wc	·			FBC			FC		AgL
SR	Del Shay Creek	Tributary to Gun Creek, Del Shay Basin		A&Ww			FBC			FC	·	AgL
SR	Devils Chasm Creek	Tributary to Cherry Creek	A&Wc				FBC			FC		
SR	Dipping Vat Reservoir	33*55'54*/109*25'15*		A&Ww			FBC			FC		AgL
SR	Double Cienega Creek	Tributary to Fish Creek	ARWo			·	FBC			FC		AgL
SR	Fish Creek	Tributary to the Black River	A&Wc				FBC		•	FC	Agl	AgL
SR	Fish Creek	Superstition Wilderness Area	•	A&Ww			FBC			FC		
SR	Gold Creek	Tributary to Tonto Creek		ARWW			FBC			FC		AgL
SR	Gordon Canyon Creek	Tributary to Haigier Creek	A&Wc				FBC			FC		Agi
SR	Haigier Creck	Tributary to Tonto Creek; Hellsgate Wilderness	A&Wc				FBC			FC	Agi	Agl
SR	Hannagan Creek	Tributary to Beaver Creek	A&Wc		·		FBC			FC		AgL
SR	Hay Creck	Tributary to the Black River, West Fork	A&Wc				FBC			FC		Agl
SR	Home Creek	Tributary to the Black River, West Fork	A&Wc				FBC			FC		AgL
SR	Horse Creek	Tributary to the Black River, West Fork	A&Wc				FBC			FC		Agl
SR	Horse Cemp Creek	Tributary to Cherry Creek	A&Wc		·		FBC			FC		Agl

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
SR	Horton Creek	Tributary to Tonto Creek	A&Wc				FBC			FC	Agi	Agi
SR	Houston Creek	Tributary to Tonto Creek		A&Ww			FBC			FC		Agl
SR	Humer Creek	Tributary to Christopher Creek	A& Wc				FBC			FC		Agl
SR	LaBarge Creek	Superstition Wilderness Area		A&Ww			FBC			FC		
SR	Lake Sierra Blanca	33°52'25"/109°16'05"	ARWC	·			FBC			FC	Agi	Agi
SR	Miami Wash	Tributary to Pinal Creek			A&We			PBC	~			
SR	Mule Creck	Tributary to Carryon Creek	A&Wc				FBC		DWS	FC	Ael	AgL
SR	Open Draw Creek	Tributary to the Black River, East Fork	A&Wc				FBC			FC		Agl
SR	P B Creck	Tributary to Cherry Creek	A&Wc			•	FBC			FC		Agi
SR	Pinal Creek	Headwaters to confluence with unnamed EDW wash (Globe WWTP)			AltWo		·	PBC				Agi
SR	Pinal Creck (EDW)	Below unnamed EDW wash to Radium				A&Wedw		PBC				
SR	Pinal Creck	Radium to Setka Ranch			A& ₩c			PBC				AZL
SR	Pinal Creek	Setica Ranch to Salt River		A&Ww			FBC			FC		Agl
SR	Pine Creek	Superstition Wilderness Area	!	A&Ww			FBC			FC		·
SR	Pinto Creek	Tributary to the Salt River		A&Ww			FBC		÷	FC	Agl	Agl
SR	Pueblo Carryon Creek	Tributary to Cherry Creek	A&Wc				FBC			FC		Agl
SR	Resvis Creck	Tributary to Pine Creek		A&Ww		,	FBC			FC		
SR	Reservation Creek	Tributary to the Black River	A&Wc			·	FBC			FC	Agi	Agi
SR	Reynolds Creek	Tributary to Workman Creek	A&Wc				FBC			FC		Agi
SR	Riverview Park Lake	Dobson Road & Sth Street; Mess		A&Ww		.	,	PBC		FC		
SR	Roadrunner Park Lake	36th Street & Cactus; Phoenix		A&Ww				PBC	-	FC		
SR	Roosevelt Lake	33°40′45"/111°09′15"		A&Ww			FBC		DWS	FC	Agi	AgL
SR	Rye Creek	Tributary to Tonto Creek		A&Ww			FBC			FC		Agl
SR	Saguaro Lake	33°34'00°/111°32'06"	A&Wc	•			FBC		DWS	FC	Agi	Agi
SR	Salome Creek	Tributary to the Salt River	A&Wc				FBC			FC	AgI	Agl
SR	Salt River	Above Roosevelt Lake		A&Ww			FBC			FC	Agl	Agl
SR	Salt River	Theodore Roosevelt Dam to the Verde River	A&Wc				FBC		DWS	FC	Agl	Agl
SR	Salt River	Confluence of Verde River to Granite Reef Dam		A&Ww			FBC		DWS	FC	Agi	AgL

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
SR	Sait River	2 km below Granite Reef Dam to I-10 bridge			A&We			PBC				
SR	Sait River	I-10 bridge to the 23rd Ave WWTP outfall		A&Ww				PBC		FC		
SR	Salt River (EDW)	23rd Ave WWTP outfall to confluence with Gila River				A&Wedw		PBC		FC	Agi	Azī
SR	State Creek	Tributary to Totalo Creek		ARWW			FBC			FC		Agi
SR	Spring Creek	Tributary to Tosso Creek	A&Wc				FBC		.~	FC		Agi
SR	Stinky Creek	Tributary to the Black River, West Fork	A&Wc				FBC			FC	/\ 32.	AgL
SR	Thomas Creek	Tributary to Beaver Creek	A&Wc				FBC		471	FC		AgL
SR -	Thompson Creek	Tributary to the Black River, West Fork	A&₩c				FBC			FC	- 1	Agl
SR	Tonto Creek	Tributary to Roosevelt Lake	A&Wc				FBC			FC	Agi	Agl
SR	Turkey Creek	Tributary to Rock Creek; Sierra Ancha Mus		A&Ww			FBC			FC		
SR	Unnamed Wash (EDW)	Globe WWTP outfall discharge to Pinal Creek				A&Wedw		PBC				
SR	Wildcat Creek	Tributary to Centerfire Creek	A&Wc	,			FBC			FC		AgL
SR	Willow Creek	Tributary to Beaver Creek	A&Wc				FBC			FC		Agl
SR	Workman Creek	Tributary to Salome Creek	A&Wc			•	FBC			FC	Agi	Agi
UG	Apache Creek	Tributary to the Gila River		A&Ww	•		FBC			FÇ		AgL
UG	Ash Creek	Tributary to the Gila River	A&Wc				FBC		,	FC		Agl
UG	Bennett Wash (EDW)	ADOC-Safford WWTP outfall to the Gila River				A&Wedw		PBC				
UG	Bitter Creek	Tributary to the Gila River		A&Ww				PBC		FC		
UG	Blue River	Tributary to the San Francisco River	ARWc				FBC			FC	Agi	AgL
UG	Bonita Creek (U)	San Carlos Indian Reservation to the Gila River		A&Ww			FBC	·	DWS	FC		AZL
UG	Buckalou Creek	Tributary to Castle Creek	A&Wc				FBC			FC	·	Agl
UG	Campbell Blue Creek	Tributary to the upper Blue River	A&Wc				FBC	-	·	FC		AgL
υG	Castle Creek	Tributary to Campbell Blue Creek	A&Wc				FBC			FC		AgL
UG	Cave Creek (U)	Headwaters to Coronado National Forest boundary	A&Wc				FBC			FC	Agi	Agi
UG	Cave Creck	Below Coronado National Forest Boundary	A&Wc				FBC		•	FC	Agi	Agl
UG	Cave Creek, South Fork (U)	Tributary to Cave Creek; Chiricahua Mtns	A&Wc				FBC			FC	Agi	Agl

BASIN	SEGMENT	LOCATION	DESIGNATED USES									
UG	Chase Creek	Headwaters to the Phelps- Dodge Morenci Mine		A&Ww			FBC			FC		Agi
IJ	Chase Creek	Below Phelps-Dodge Morenci Mine			A&Wc			PBC				
UG	Chinty Carryon Creek	Tributary to Salt House Creek	A&Wc				FBC		•	FC		AgL
UG	Cima Creek	Tributary to Cave Creek; Chiricahua Mins	ARWC				FBC			FC		AgL
UG	Cluff Ranch Pond #1	32*48*55*/109*49*15*		A&Ww			FBC			FC	Agi	AgL
UG	Cluff Reach Pood #2	32*49*15*/109*50*33*		ARWW			FBC			FC	AgI	AgL
UG	Cluff Ranch Pond #3	32°48'20"/109°51'43"		A&Ww			FBC			FC	Agi	AgL
UG	Coleman Creek	Tributary to Campbell Blue Creek	A&Wc	·			FBC			FC		AgL
UG	Dankworth Ponds	32*43*15*/109*42*15*	A&Wc				FBC			FC		
υG	Deadman Carryon Creek	Tributary to the Gila River	A&Wc				FBC		DWS	FC		AgL
υG.	Devils Carryon	Tributary to Mineral Creek		A&Ww			FBC			FC		
UG	Eagle Creek	Tributary to the Gila River, below Clifton	A& Wc				FBC		DWS	FC	Agi	Agi
UG	East Eagle Creek	Tributary to Eagle Creek	A&Wc			-	FBC			FC		Agi
UG	East Turkey Creek	Eastern slope, Chiricahua Mountains	A&Wc				FBC			FC		Agi
UG	Evens Pond	32°49'15"/109°51'15"		A&Ww			FBC			FC		
UG	Fishhook Creek	Tributary to the upper Blue River	A&Wc				FBC			FC		AgL
UG	Foote Creek	Tributary to the upper Blue River		A&Ww			FBC			FC		AgL
UG.	Frye Creek	Eastern slope, Pinaleno Mountains	A&Wc				FBC			FC		AgL
UG	Frye Mesa Reservoir	32*45*13*/109*50*00*	A&Wc				FBC		DWS	FC		7.
UG	Gibson Creek	Tributary to Marijilda Creek	A&Wc				FBC			FC		Agi
UG	Gila River	New Mexico border to the San Carlos Indian Reservation		A&Ww			FBC			FC	Agl	Agl
UG	Grant Creck	Tributary to the upper Blue River	A&Wc	·		•	FBC			FC		AZL
UG	Judd Lake	33°51'15"/109"09'15"	A&Wc				FBC			FC		
UG	K P Creek	Tributary to the upper Blue River	A&Wc				FBC		DWS	FC		Agl
UG	Lanphier Carryon Creek	Tributary to the upper Blue River	A&₩c				FBC		-	FC		Agl

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
UG	Little Blue Creek	Tributary to the upper Blue River		AŁWw			FBC			FC		AgL
UG	Little Creek	Tributary to the San Francisco River	A&Wc				FBC			FC	,41	
UG	Lower George's Reservoir	Near Alpine	A&Wc				FBC			FC	1 - 1	Agl
บด	Luna Lake	33°49′45″/109°05′15″	ARWc				FBC			FC	# 1 mm ()	AEL
UG	Marijilda Creek	Tributary to the Gila River	A&Wc				FBC		6,	FC	Agi	AgL
υG	Markham Creek	Tributary to the Gila River		AŁWw			FBC			FC	27.00 P 1	Agi
UG	Pigzoa Creek	Tributary to the lower Blue River		A&Ww			FBC			FC	***	Agl
UG	Raspberry Creek	Tributary to the upper Blue River		A&Ww'			FBC			FC		
UG	Roper Lake	32*45'20"/109*42'11"		ARWw			FBC			FC		
UG	San Francisco River	Headwaters to the New Mexico border	ARWC				FBC			FC	Agi	AgL
UG	Sen Francisco River	New Mexico border to the Gils River		A&Ww			FBC		٠	FC	Agi	AeL
UG	Sen Simon River	Tributary to the upper Gila River			A&We			PBC				AgL
UG	Sheep Tank	32*46*15*/109*48*08*		A&Ww			FBC		٠,	FC		AgL
UG	Smith Pond	32*49*09*/109*50*26*		A&Ww			FBC			FC		
UG	Squarw Creek	Tributary to Thomas Creck		A&Ww			FBC			FC		Agi
UG	Stone Creek	Tributary to the San Francisco River	A&₩c				FBC			FC	Agi	Agl
UG	Strayborse Creek	Tributary to the Blue River	A&Wc			·	FBC		·	FC		:_J
UG	Thomas Creek	Tributary to the upper Blue River		A&Ww			FBC			FC		AgL
UG	Timny Pond	33°47'49"/109"04'23"		ARWw			FBC			FC		Agi
UG	Turkey Creek	Tribucary to Campbell Blue Creek	A&Wc				FBC			FC		AgL
UG	Unnamed Wash (EDW)	ADOC-Globe WWTP outfall to the San Carlos Reservation				A&Wedw		PBC				
UG	Walnut Canyon Creck	Tributary to the upper Gila River		A&Ww			FBC		,	FC		
UG	White Canyon Creck	Tributary to Walnut Canyon Creek		A&Ww			FBC			FC		
VR	American Gulch	Headwaters to the Northern Gila County Sanitary District WWTP outfall (Payson)		A&Ww.			FBC			FC	Agi	AzL

BASIN	SEGMENT	LOCATION	DESIGNATED USES									
VR	American Gulch (EDW)	Northern Gila County Sanitary District WWTP outfall (Payson) to the East Verde River				A&Wedw		PBC				
VR	Apache Creck	Tributary to Wainut Creek		ARWW			FBC			FC		Agi
VR	Ashbrook Wash	Headwaters to the Ft McDowell Reservation .			A&We	·		PBC				
٧R	Aspen Creek	Near Prescott		A&Ww			FBC			FC		
VR	Bar Cross Tank	35*00'40*/112*05'34*		A&Ww			FBC		٠.	FC	7	Agi
VR	Berrata Tank	35*02*43*/112*24*17*		A&Ww			FBC			FC		Agl
VR	Bartieti Lake	33°49'00"/111"37'45"	·	A&Ww			FBC		DWS	FC	Agi	Agi
VR	Beaver Creek	Tributary to the Verde River	A&Wc				FBC			FC		Agl
VR	Big Chino Wash	Tributary to Sullivan Lake			A&We			PBC				Agi
VR	Biner Creek ·	Headwaters to the Jerome WWTP outfall discharge		A&Ww				PBC		FC		Agi
VR	Bitter Creek (EDW)	Jerome WWTP outfall discharge to 2.5 km downstream				A&Wedw		PBC	-			
٧R	Bitter Creek	Below 2.5 km downstream of the Jerome WWTP outfail discharge		A&Ww		·	FBC			FC	Agl	AgL
VR.	Black Canyon Creek	Mingus Mountains		A&Ww			FBC			FC		AgL
VR	Bonita Creek	Tributary to Perley Creek; Tonto National Forest	A&Wc			·	FBC		DWS	FC		
VR .	Bray Creek	Tributary to Webber Creek		A&Ww			FBC			FC		AgL
VR	Carter Tank	34*52*27*/[12*57*28*		A&Ww			FBC			FC		AgL
VR	Cercus Wash	Headwaters to the Fort McDowell Indian Reservation			A&Wc			PBC				
VR'	Chase Creek	Tributary to the East Verde River	A&Wc			•	FBC		DWS	FC		
VR	Clover Creek	Tributary to headwaters of West Clear Creek	A&Wc	·			FBC			FC		AgL
VR	Colony Wash	Headwaters to the Fort McDowell Indian Reservation			A&We			PBC		:		
VR	Dead Horse Lake	34°45'00"/112°00'30"	A&Wc				FBC			FC		
VR	Deadman Creck	Tributary to Horseshoe Reservoir		A&Ww			FBC			FC		Agi
VR	Del Rio Dem Lake	34*48'55*/112*28'00"		A&Ww			FBC			FC		Agi
VR	Dry Beaver Creek	Tributary to Beaver Creek		A&Ww			FBC			FC	Agl	Agl

BASTIN	SEGMENT	LOCATION			DESIGN	ATED	USES				
VR	Dude Creek	Tributary to the East Verde River	A&Wc			FBC			FC	isA	Agi
VR	East Verde River	Tributary to the Verde River	ALWo			FBC		DWS	FC	Agi	AgL
VR	Ellison Creck	Tributary to the East Verde River	A&Wc			FBC			FC		AgL
VR	Fossil Creek	Tributary to the Verde River		ARWW		FBC			FC		AgL
VR	Fossil Springs	34°25'24"/111°34'25"	·	ARWW		FBC		Dws	FC		
VR	Foxboro Lake	34°53'48"/111°40'00"		ARWw		FBC			FC		Agi
VR	Fry_Lake	35°03'45"/111"48'02"		A&Ww		FBC			FC		AgL
VR	Gep Creck	Tributary to the Verde River, Prescott National Forest	A&Wc			FBC			FC	·	AgI
VR	Garrett Tank	35°18'57"/112°42'16"	·	A&Ww		FBC			FC		Agl
VR	Goldwater Lake, Lower	34°29'55"/112"27'18"	A&Wc		 -	FBC		DWS	FC		
VR	Goldwater Lake, Upper	34°29′51°/112°26′55°	A&Wc			FBC		DWS	FC		
VR	Granite Basin Lake	34°37'01°/112°42'16°		A&Ww		FBC			FC	Agi	Agl
VR	Granite Creek	Tributary to the Verde River		A&Ww		FBC			FC	Agi	Agi
VR	Heifer Tank	35"20"28"/112"32"56"		A&Ww		FBC			FC		Agl
VR	Heil Canyon Tank	35*05*00*/112*24*06*		A&Ww		FBC			FC		Agi
VR	Homestead Tank	35"21"23"/112"41"32"		A&Ww		FBC			FC		AgL
VR	Horse Park Tank	34°58′15°/111°36′29°		A&Ww	·	FBC			FC		Agi
VR	Horseshoe Reservoir	33°59'00"/111°42'30"		A&W*		FBC			FC	Agl	AgL
VR	J.D. Dem Lake	35*04*01*/112*01*40*	A&Wc		,	FBC			FC	Agi	AgL
VR	Jacks Canyon Wash (EDW)	Big Park WWTP outfall to Dry Beaver Creek			A&Wedw		PBC			·	
VR	Lime Creck	Tributary to Horseshoe Reservoir		A&Ww		FBC			FC		Agl
VR	McLellan Reservoir	35*13*15*/112*17*05*		A&Ww		FBC			FC	Agi	Agi
VR	Meath Dem Tank	35*0746*/112*2735*		A&Ww	·	FBC			FC		Agl
VR	Mullican Place Tank	34°44"16"/111"36"08"		A&Ww		FBC			FC		AgL
VR	Oak Creck (U)	Tributary to the Verde River	A&Wc			FBC		DWS	FC	Agi	AgL
VR	Oak Creek, West Fork (U)	Tributary to Oak Creek	A& Wc			FBC			FC		AgL
VR	Odell Lake	34°56′02"/111°37′52"	A&Wc			FBC			FC		
VR	Peck's Lake	34°47'07"/112°02'30"	A&Wc			FBC			FC	Agi	Agl
VR	Perkips Tank	35*06'42"/112*04'08"	A&Wc	·		FBC			FC		Agl
VR	Pine Creek	Tributary to the East Verde River	A&Wc			FBC		DWS	FC	AgI	AgL

BASIN	SEGMENT	LOCATION				DESIGN	ATED	USES				
VR	Red Lake	35°12′19°/113°03′55°		A&Ww		T	FBC	T		FC	•	Agi
VR	Reservoir #1	35°13'05"/111°50'07"		ARWW			FBC			FC		
VR	Reservoir #2	35"13"16"/111"50"36"		ARWW	 		FBC	 	 	FC		
VR	Roundiree Canyon Creek	Tributary to Tangle Creek		A&Ww			FBC		1	FC		Agi
VR	Scholze Lake	35*11'53*/112*00'31*		ARWW	1		FBC			FC		AgL
VR	Spring Creek	Tributary to Oak Creek		ARWW			FBC			FC	Agi	AgL
VR	Steel Dam Lake	35*13'36"/112"24'51"	A&Wc				FBC			.FC		AgL
VR	Stehr Lake	34°21'99"/111°40'00"		ARWW			FBC			FC		ASL
VR	Stone Dam Lake	35°13'36"/ 12"24'16"	A&Wc				FBC		·	FC	Agi	ALL
VR	Stoneman Lake	34°46′44°/111°31°05°	A&Wc				FBC			FC	Agi	AgL
VR	Sullivan Lake	34"51'46"/112"27'41"		A&Ww			FBC			FC	Agi	Agi
VR	Sycamore Creck	Tributary to Verde River, Coconino National Forest	A&Wc				FBC			FC	Agi	AgL
VR	Sycamore Creek	Tributary to Verde River; Tomto National Forest		A&Ww			FBC			FC	Agi	Agl
VR	Tangle Creek	Tributary to the Verde River		A&Ww			FBC			FC	Agi	Agl
VR	Trinity Tank	35"27"44"/\ \12"47"56"		A&Ww			FBC			FC		Agi
VR	Verde River	Above Bartlett Dam	•	A&Ww			FBC			FC	Agi	Agl
VR.	Verde River	Below Bardett Dam		A&Ww			FBC		DWS	FC	Agi	Agi
VR	Watson Lake	34°35°15"/112°25°05"		A&Ww			FBC			FC	Agi	Agl
VR	Webber Creek	Tributary to the East Verde River	A& Wc			·	FBC			FC		AgL
VR	West Clear Creek	Tributary to the Verde River	A&W c				FBC			FC		Agl
VR	Wet Beaver Creek	Tributary to Beaver Creek	A& Wc			·	FBC			FC	Agl	AgL
VR	Whitehorse Lake	35°07'00"/112°00'47"	A&Wc				FBC		DWS	FC	Agl	AgL
VR	Williamson Valley Wash	Headwaters to confluence with Mint Wash			A&We			PBC				AEL
VR	Williamson Valley Wash	Confluence of Mint Wash to 10.5 km dwnstm	•	A&Ww			FBC			FC		Agl
VR	Williamson Valley Wash	Below 10.5 km downstream of the Mint Wash confluence	•		A&We			PBC				AgL
VR	Williscraft Tank	35*1173*/112*3538*		A&Ww			FBC			FC		AgL
VR	Willow Creek	Tributary to Willow Creek Reservoir	A&Wc				FBC			FC		AgL
VR	Willow Creek Reservoir	34°36′17"/112°26′19"		A&Ww			FBC			FC	Agi	AgL
VR	Willow Valley Lake	34*41*08*/111*19*57*		A&Ww			FBC			FC		AgL
WP	Big Creek	Pinaleno Mountains	A&Wc				FBC			FC		AEL

BASIN	SEGMENT	LOCATION			DESIGN	(TED	USES				
WP	Goudy Canyon Creek	Pinaleno Mountains	A&Wc			FBC			FC		Agi
WP	Grant Creck	Pineleno Mountains	ALWC			FBC		DWS	FC		AgL
WP	High Creek	Galiuro Mountains	,	ARWW		FBC			FC		AgL
WP	Moonshine Creek	Tributary to Post Creek	A&Wc			FBC			FC	·	Agi
WP	Pinery Creek	Chiricahus Moustains		AŁWw		FBC		DWS	FC		AgL
WP	Post Creek	Tributary to Grant Creek	ARWC			FBC			FC	AgI	AgL
WP	Riggs Flat Lake	32°42'27"/109°57'51"	A&Wc			FBC			FC	Agi	AgL
WP :	Rock Creek	Tributary to Turkry Creek		AŁWw		FBC		·	FC		Agl
WP	Snow Flat Lake	32"39"09"/109"51'52"	A&Wc			FBC		·	FC	Agi	AgL
WP	Soldier Creek	Tributary to Post Creek; Coronado National Forest	A&Wc			FBC			FC		Agl
WP	Turkey Creek (formerly in UG)	Western slope, Chiricabus Mountains	ARWc	·	·	FBC			FC	Agl	AgL
WP	Ward Canyon Creek	Tributary to Turkey Creek	A&Wc			FBC			FC		Agi
WP	Wilcox Playa	Sulphur Springs Valley		A&Ww		FBC			FC		AgL

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Appendix B repealed, new Appendix B adopted effective April 24, 1996 (Supp. 96-2).

Appendix C. Repealed

Historical Note

Adopted effective February 18, 1992 (Supp. 92-1). Appendix C repealed effective April 24, 1996 (Supp. 96-2).

ARTICLE 2. REPEALED

R18-11-201. Repealed

Historical Note

Amended effective January 29, 1980 (Supp. 80-1).

Amended Subsection A. effective April 17, 1984 (Supp. 84-2). Former Section R9-21-201 repealed, former Section R9-21-203 renumbered as Section R9-21-201 and amended effective January 7, 1985 (Supp. 85-1).

Amended effective August 12, 1986 (Supp. 86-4).

Former Section R9-21-201 renumbered without change as Section R18-11-201 (Supp. 87-3). Amended effective December 1, 1988 (Supp. 88-4). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-202. Repealed

Historical Note

Former Section R9-21-202 repealed, former Section R9-21-102 renumbered as Section R9-21-202 and amended effective January 7, 1985 (Supp. 85-1). Amended Subsections (B), (D), and (E) effective August 12, 1986 (Supp. 86-4). Former Section R9-21-202 renumbered without change as Section R18-11-202 (Supp. 87-3). Section repealed, new Section adopted effective February 18, 1992 (Supp. 92-1). Section repealed effective April 24, 1996 (Supp. 96-2).

R18-11-203. Repealed

Historical Note

Amended effective January 29, 1980 (Supp. 80-1).

Amended subsection (B) by adding paragraphs (27) and (28) effective October 14, 1981 (Supp. 81-5). Former Section R9-21-203 renumbered as Section R9-21-201, former Section R9-21-204 renumbered as Section R9-21-203 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-203 renumbered and amended as Section R9-21-204, new Section R9-21-203 adopted effective August 12, 1986 (Supp. 86-4). Former Section R9-21-203 renumbered without change as Section R18-11-203 (Supp. 87-3). Amended subsection (B) effective December 1, 1988 (Supp. 88-4). Section repealed, new Section adopted effective February 18, 1992 (Supp. 92-1). Section repealed effective April 24, 1996 (Supp. 96-2).

R18-11-204. Repealed

Historical Note

Former Section R9-21-204 renumbered and amended as Section R9-21-207, former Section R9-21-206 renumbered and amended as Section R9-21-204 effective January 29, 1980 (Supp. 80-1). Former Section R9-21-204 renumbered as Section R9-21-203, former Section R9-21-205 renumbered as Section R9-21-204 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-204 renumbered and amended as Section R9-21-203 renumbered and amended as Section R9-21-204 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-204 renumbered without change as Section R18-11-204 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-205. Repealed

Historical Note

Former Section R9-21-205 repealed, new Section R9-21-205 adopted effective January 29, 1980 (Supp. 80-1).

Former Section R9-21-205 renumbered as Section R9-21-204, former Section R9-21-206 renumbered as Section R9-21-205 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-205 renumbered and amended as Section R9-21-206, former Section R9-21-204 renumbered and amended as Section R9-21-205 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-205 renumbered without change as Section R18-11-205 (Supp. 87-3). Section repealed, new Section adopted effective February 18, 1992 (Supp. 92-1). Section repealed April 24, 1996 (Supp. 96-2).

RIS-11-206. Repealed

Historical Note

Former Section R9-21-206 renumbered and amended as Section R9-21-204, new Section R9-21-206 adopted effective January 29, 1980 (Supp. \$0-1). Amended by adding subsection (B) effective October 14, 1981 (Supp. \$1-5). Amended subsection (B) and Table 1 effective January 29, 1982 (Supp. 82-1). Amended subsection (B) and Table 1 effective August 13, 1982 (Supp. \$2-4). Former Section R9-21-206 renumbered as Section R9-21-205, former Section R9-21-207 renumbered as Section R9-21-206 and amended effective January 7. 1985 (Supp. 85-1). Former Section R9-21-206 renumbered and amended as Section R9-21-207, former Section R9-21-205 renumbered and amended as R9-21-206 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-206 renumbered without change as Section R18-11-206 (Supp. 87-3).

R18-11-207. Repealed

Historical Note

Former Section R9-21-207 repealed, former Section R9-21-204 renumbered and amended as Section R9-21-207 effective January 29, 1980 (Supp. 80-1). Former Section R9-21-207 renumbered as Section R9-21-206, former Section R9-21-208 renumbered as Section R9-21-207 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-207 renumbered without change as Section R9-21-208, former Section R9-21-206 renumbered and amended as Section R9-21-207 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-207 renumbered without change as Section R18-11-207 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-208. Repealed

Historical Note

Former Section R9-21-208 repealed, new Section R9-21-208 adopted effective January 29, 1980 (Supp. 80-1). Former Section R9-21-208 renumbered as Section R9-21-207, Appendices 1 thru 9 amended as Appendix A (now shown following R9-21-213), former Section R9-21-209 renumbered as R9-21-208 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-208 renumbered and amended as Section R9-21-209, former Section R9-21-207 renumbered without change as Section R9-21-208 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-208 renumbered without change as Section R18-11-208 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-209. Repealed

Historical Note

Former Section R9-21-209 renumbered and amended as Section R9-21-210, new Section R9-21-209 adopted effective January 29, 1980 (Supp. 80-1). Former Section R9-21-209 renumbered as Section R9-21-208, Tables 1 and II amended as Appendix B (now shown following R9-21-213 and Appendix A), former Section R9-21-210 renumbered as Section R9-21-209 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-209 renumbered and amended as Section R9-21-209 renumbered and amended as Section R9-21-209 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-209 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-210. Repealed

Historical Note

Former Section R9-21-210 renumbered and amended as Section R9-21-211, former Section R9-21-209 renumbered and amended as Section R9-21-210 effective January 29, 1980 (Supp. 80-1). Amended Subsection (A) effective April 17, 1984 (Supp. 84-2). Former Section R9-21-210 renumbered as Section R9-21-209, former Section R9-21-211 renumbered as Section R9-21-210 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-210 renumbered and amended as Section R9-21-211, former Section R9-21-209 renumbered and amended as Section R9-21-210 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-210 renumbered without change as Section R18-11-210 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-211. Repealed

Historical Note

Former Section R9-21-210 renumbered and amended as Section R9-21-211 effective January 29, 1980 (Supp. 80-1). Amended Subsections (D), (G) thru (I), and added (J) effective October 14, 1981 (Supp. 81-5). Former Section R9-21-211 renumbered as Section R9-21-210, former Section R9-21-212 renumbered as Section R9-21-211 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-211 renumbered and amended as Section R9-21-212, former Section R9-21-210 renumbered and amended as Section R9-21-211 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-211 renumbered without change as Section R18-11-211 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-212. Repealed

Historical Note

Adopted effective January 29, 1980 (Supp. 80-1). Former Section R9-21-212 renumbered as Section R9-21-211, former Section R9-21-213 renumbered as Section R9-21-212 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-212 repealed, former Section R9-21-211 renumbered and amended as Section R9-21-212 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-212 renumbered without change as Section R18-11-212 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-213. Repealed

Historical Note

Adopted effective January 29, 1980 (Supp. 80-1).

Amended effective April 17, 1984 (Supp. 84-2). Former Section R9-21-213 renumbered as Section R9-21-212, former Section R9-21-103 renumbered as Section R9-21-213 and amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-213 renumbered without change as Section R9-21-214, new Section R9-21-213 adopted effective August 12, 1986 (Supp. 86-4). Former Section R9-21-213 renumbered without change as Section R18-11-213 (Supp. 87-3). Amended effective December 1, 1988 (Supp. 88-4). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-214. Repealed

Historical Note

Former Section R9-21-213 renumbered without change as Section R9-21-214 effective August 12, 1986 (Supp. 86-4). Former Section R9-21-214 renumbered without change as Section R18-11-214 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

Appendix A. Repealed

Historical Note

Former Section R9-21-208, Appendices 1 through 9 renumbered and amended as new Appendix A adopted effective January 7, 1985 (Supp. 85-1). Amended effective August 12, 1986 (Supp. 86-4). Appendix repealed effective February 18, 1992 (Supp. 92-1).

Appendix B. Repealed

Historical Note

Former R9-21-209, Table 1 and Table 2 renumbered and amended as Appendix B adopted effective January 7, 1985 (Supp. 85-1). Amended effective August 12, 1986 (Supp. 86-4). Appendix repealed effective February 18, 1992 (Supp. 92-1).

ARTICLE 3. REPEALED

R18-11-301. Repealed .

Historical Note

Adopted effective July 9, 1981 (Supp. 81-4). Former Section R9-21-301 renumbered without change as Section R18-11-301 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-302. Repealed

Historical Note

Adopted effective June 8, 1981 (Supp. 81-3). Amended effective January 7, 1985 (Supp. 85-1). Former Section R9-21-302 renumbered without change as Section R18-11-302 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).

R18-11-303. Repealed

Historical Note

Adopted effective January 7, 1985 (Supp. 85-1).
Amended effective August 12, 1986 (Supp. 86-4).
Former Section R9-21-303 renumbered without change as Section R18-11-303 (Supp. 87-3). Section repealed effective February 18, 1992 (Supp. 92-1).